

HCD-BC150/BC250

SERVICE MANUAL

Ver 1.2 2004.07

US Model
Canadian Model
E Model
HCD-BC150/BC250
Australian Model
HCD-BC150



HCD-BC150/BC250 are the amplifier, DVD/CD and tuner section in DAV-BC150/BC250.

Photo: HCD-BC150

This system incorporates with Dolby® Digital and Dolby Pro Logic (II) adaptive matrix surround decoder and the DTS® Digital Surround System.

* Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

** Manufactured under license from Digital Theater Systems, Inc. "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.

| | Old Type Models | New Type Models (US, Canadian) |
|------------------------------------|-----------------|-----------------------------------|
| Model Name Using Similar Mechanism | NEW | NEW |
| Mechanism Type | CDM81A-DVBU27 | CDM81C-DVBU100 |
| Optical Pick-up Name | DBU-1 | KHM-310AAB/C2NP |

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND
TOTAL HARMONIC
DISTORTION:

With 4 ohm loads, both channels driven, from 200 – 20,000 Hz; rated 65 watts per channel minimum RMS power, with no more than 0.7 % total harmonic distortion from 250 milli watts to rated output.

Amplifier section BC150

Stereo mode (rated) 65W + 65W (4 ohms at 1 kHz, DIN)

Surround mode (reference)

North American models: Front: 108 W + 108 W (with SS-TS10)
Center*: 108 W (with SS-TS10)
Surround*: 108 W + 108 W (with SS-TS10)
Subwoofer*: 110 W (with SS-WS10)

Other models:

Front: 85 W + 85 W (with SS-TS10)
Center*: 85 W (with SS-TS10)
Surround*: 85 W + 85 W (with SS-TS10)
Subwoofer*: 85 W (with SS-WS10)

BC250

Stereo mode (rated) 65 W + 65 W (4 ohms at 1 kHz, DIN)

Surround mode (reference) Front: 113 W + 113 W (with SS-TS11)
Center*: 113 W (with SS-CT11)
Surround*: 113 W + 113 W (with SS-TS10)
Subwoofer*: 115 W (with SS-WS10)

* Depending on the sound field settings and the source, there may be no sound output.

Inputs VIDEO/SAT (AUDIO IN):
Sensitivity: 250/400 mV
Impedance: 50 kilohms
Accepts low-and high-impedance headphones.

Phones

DVD system

Laser

Semiconductor laser
(DVD: $\lambda = 650 \text{ nm}$)
(CD: $\lambda = 780 \text{ nm}$)

Emission duration: continuous

Signal format system

NTSC (North American models)
NTSC/PAL (Other models)

Frequency response (at 2 CH STEREO mode)
DVD (PCM): 2 Hz to 22 kHz ($\pm 1.0 \text{ dB}$)
CD: 2 Hz to 20 kHz ($\pm 1.0 \text{ dB}$)

Tuner section

System

PLL quartz-locked digital synthesizer system

FM tuner section

Tuning range

North American models: 87.5 – 108.0 MHz (100 kHz step)

Other models: 87.5 – 108.0 MHz (50 kHz step)

Antenna

FM wire antenna

Antenna terminals

75 ohms, unbalanced

Intermediate frequency

10.7 MHz

— Continued on next page —

DVD RECEIVER

9-877-956-03
2004G1678-1
© 2004.07

Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation

SONY®

AM tuner section

Tuning range

North American models: 531 – 1,710 kHz (with the interval set at 9 kHz)
530 – 1,710 kHz (with the interval set at 10 kHz)

Middle Eastern models: 531 – 1,602 kHz (with the interval set at 9 kHz)

Other models: 531 – 1,602 kHz (with the interval set at 9 kHz)
530 – 1,710 kHz (with the interval set at 10 kHz)

antenna AM loop antenna

Intermediate frequency 450 kHz

Video section

Outputs

Video: 1 Vp-p 75 ohms

S video:

Y: 1 Vp-p 75 ohms

C: 0.286 Vp-p 75 ohms

COMPONENT:

Y: 1 Vp-p 75 ohms

P_B/C_B, P_R/C_R: 0.7 Vp-p

75 ohms

General

Power requirements

North American and Mexican models:

120 V AC, 60 Hz

Taiwan model: 120V AC, 50/60 Hz

Other models: 220 – 240 V AC, 50/60 Hz

Power consumption 100 W

0.3 W (at the Power Saving Mode)

Dimensions (approx.) 430 × 90 × 403 mm

(17 × 3 5/8 × 15 7/8 inches)

(w/h/d) incl. projecting

parts incl. projecting parts

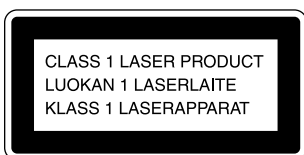
Mass (approx.) 5.5 kg (12 lb 3 oz)

Design and specifications are subject to change without notice.

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Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead. (Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)



: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
Soldering irons using a temperature regulator should be set to about 350 °C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

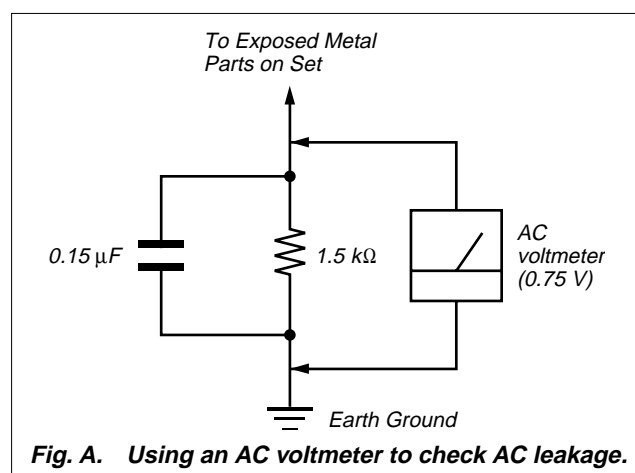


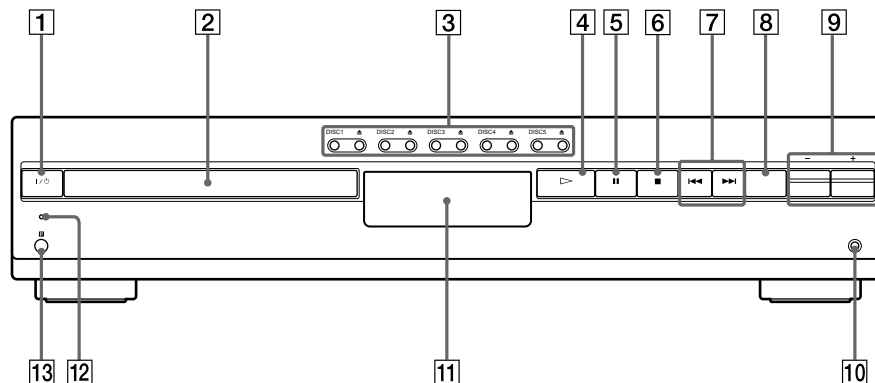
Fig. A. Using an AC voltmeter to check AC leakage.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

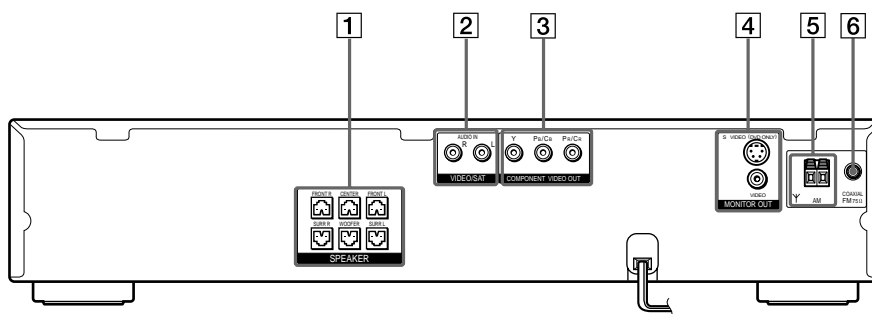
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE \triangle SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

Index to Parts and Controls

For more information, refer to the pages indicated in parentheses.

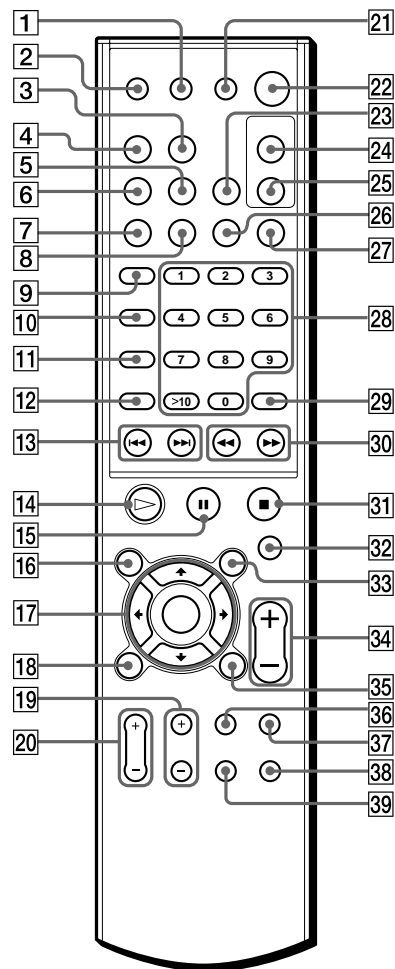
Front Panel

- | | |
|--|-----------------------------|
| 1 I/⏻ (power) (28) | 8 FUNCTION (28, 57, 60) |
| 2 Disc tray (28) | 9 VOLUME +/- (28) |
| 3 DISC 1-5 ⏻ (eject) indicators (28, 62) | 10 PHONES jack (28) |
| 4 ▷ (play) (28, 62) | 11 Front panel display (75) |
| 5 (pause) (30) | 12 STANDBY indicator (28) |
| 6 ■ (stop) (30) | 13 ⏻ (remote sensor) (13) |
| 7 ⏮/⏭, PRESET +/- (30, 60, 62) | |

Rear Panel

- | | |
|--|----------------------------|
| 1 SPEAKER jacks (14) | 5 AM terminal (19) |
| 2 VIDEO/SAT AUDIO IN jacks (20, 58) | 6 FM 75Ω COAXIAL jack (19) |
| 3 COMPONENT VIDEO OUT jacks (20) | |
| 4 MONITOR OUT (VIDEO / S VIDEO) jacks (20) | |

Remote



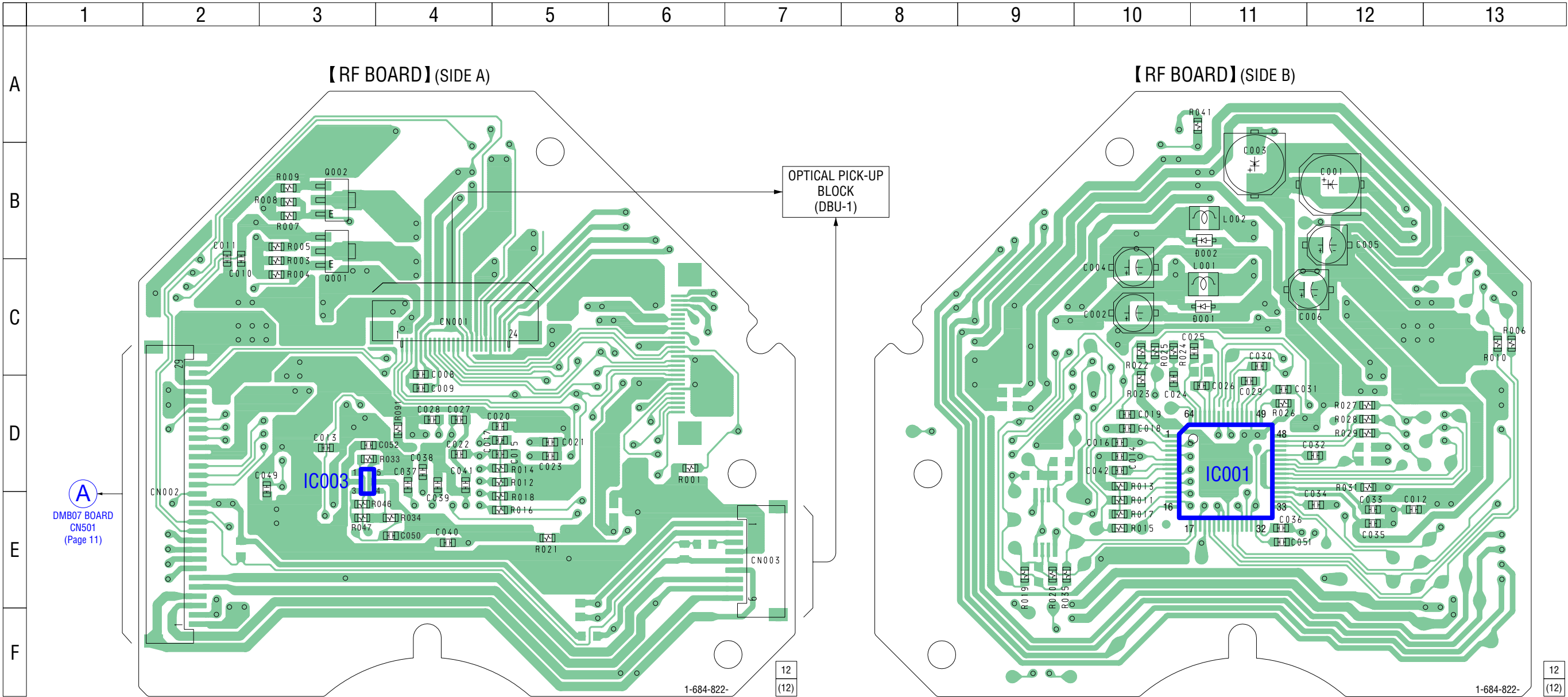
- 1 SONY TV DIRECT (56)
- 2 PROGRESSIVE (22, 55)
- 3 DISC SKIP (28, 30)
- 4 MUTING (30)
- 5 REPEAT/FM MODE (37, 60)
- 6 SLEEP (61)
- 7 TUNER/BAND (59, 60)
- 8 TUNER MENU (59, 60)
- 9 TV (55)
- 10 AUDIO (46)
- 11 ANGLE (51)

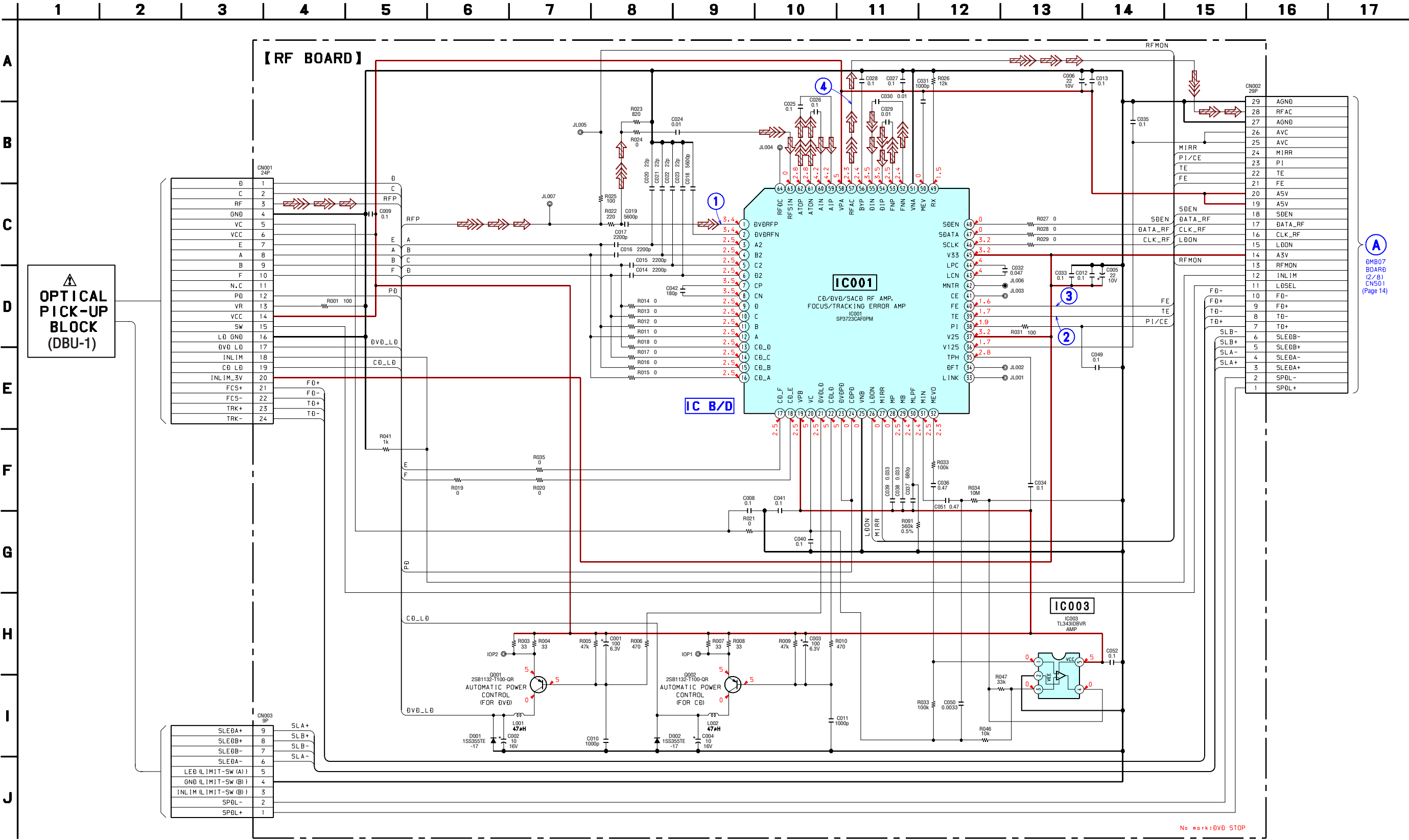
- 12 SUBTITLE (51)
- 13 I◀▶I, PRESET +/- (30, 32, 60)
- 14 ▷ PLAY (28, 30, 31, 32, 36, 37, 38)
- 15 II PAUSE (30)
- 16 TOP MENU (32)
- 17 ◀/▶/◀/▶/ENTER (25, 32, 34, 35, 36, 37, 39, 46, 52, 58, 59, 60, 62, 63)
- 18 ☐ DISPLAY (34, 35, 37, 39, 44, 45, 46, 52, 63)
- 19 TV CH +/- (55, 56)
- 20 TV VOL +/- (55)
- 21 TV I/⏻ (on/standby) (55)
- 22 I/⏻ (standby) (28, 59, 60)
- 23 DSGX (50)
- 24 AUTO FORMAT DIRECT (48, 49)
- 25 MODE (48, 49)
- 26 NIGHT MODE (50)
- 27 FUNCTION (22, 28, 55, 57, 58, 59, 60)
- 28 Number buttons (32, 39, 52, 55, 56)
- 29 ENTER (55)
- 30 ◀◀/▶▶/◀/▶ SLOW, TUNING +/- (38, 59, 60)
- 31 ■ STOP (30, 31, 32)
- 32 AMP MENU (25, 58, 62)
- 33 MENU (32)
- 34 VOLUME +/- (30, 60)
- 35 ↶ RETURN (32, 34, 35, 39, 52, 63)
- 36 TV/VIDEO (55, 56)
- 37 DISPLAY (43, 60)
- 38 TIME/TEXT (41, 44)
- 39 CLEAR (39)

MEMO

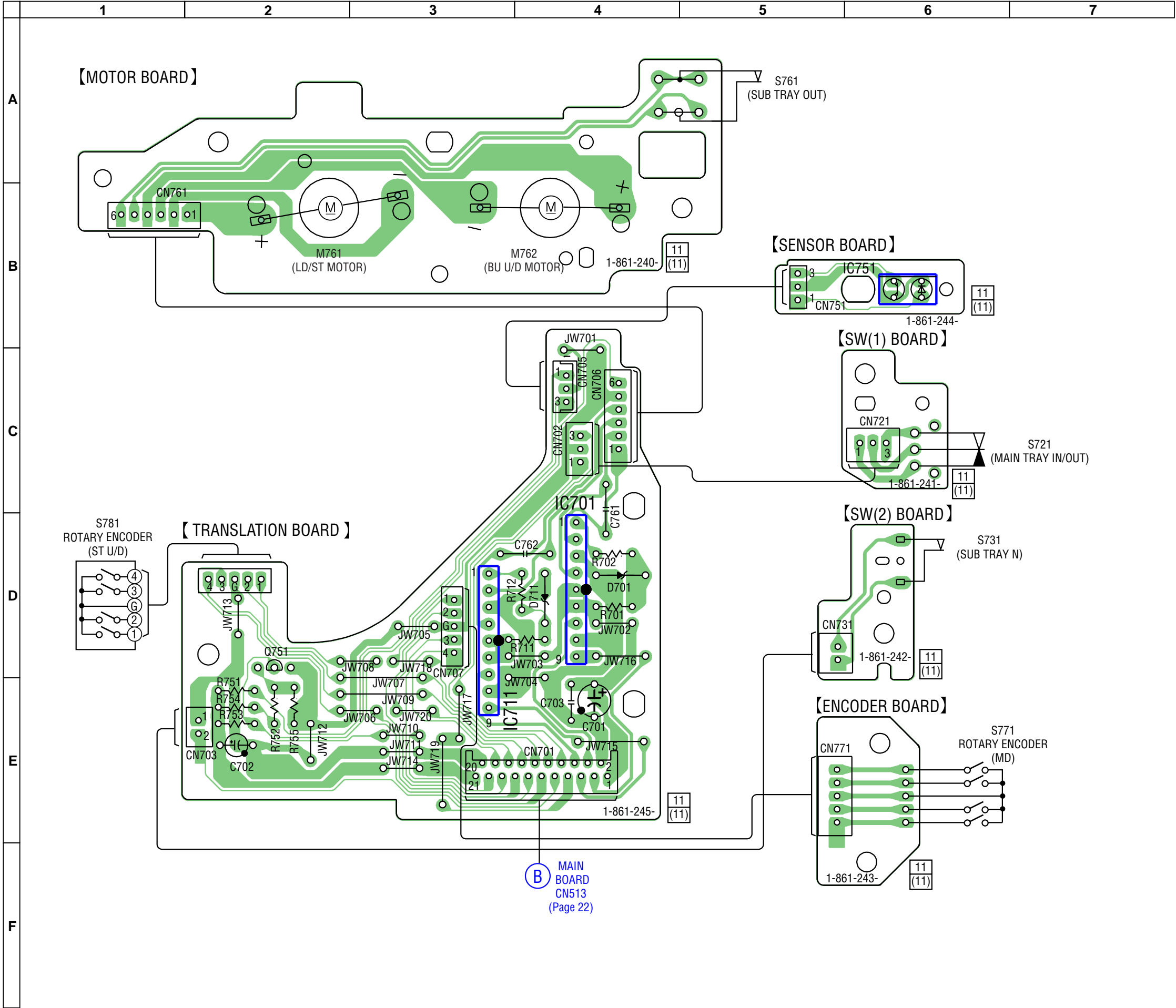
SECTION 2
DIAGRAMS

2-1. PRINTED WIRING BOARD — RF SECTION —

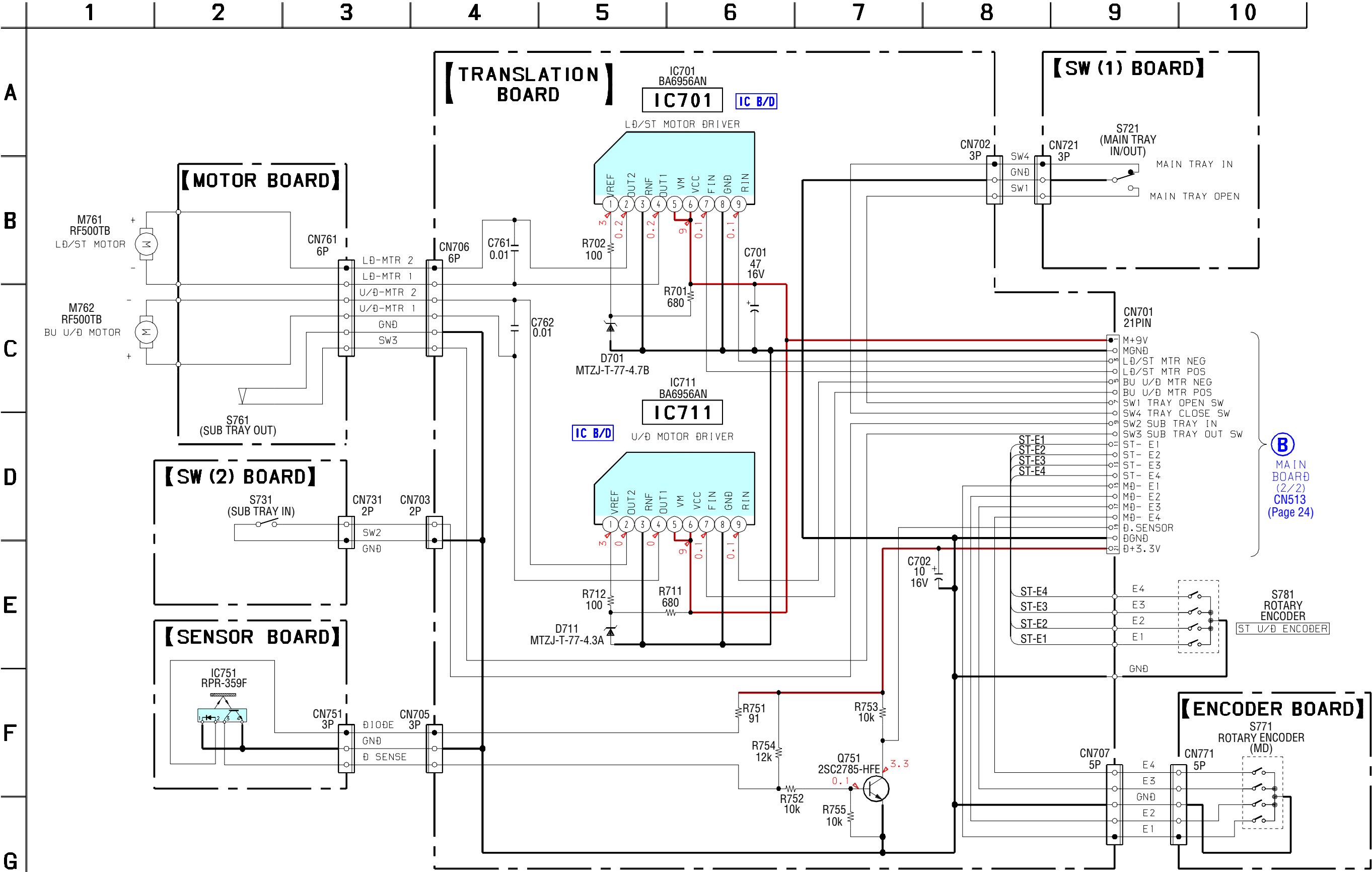




2-3. PRINTED WIRING BOARD — CD MECHANISM SECTION —

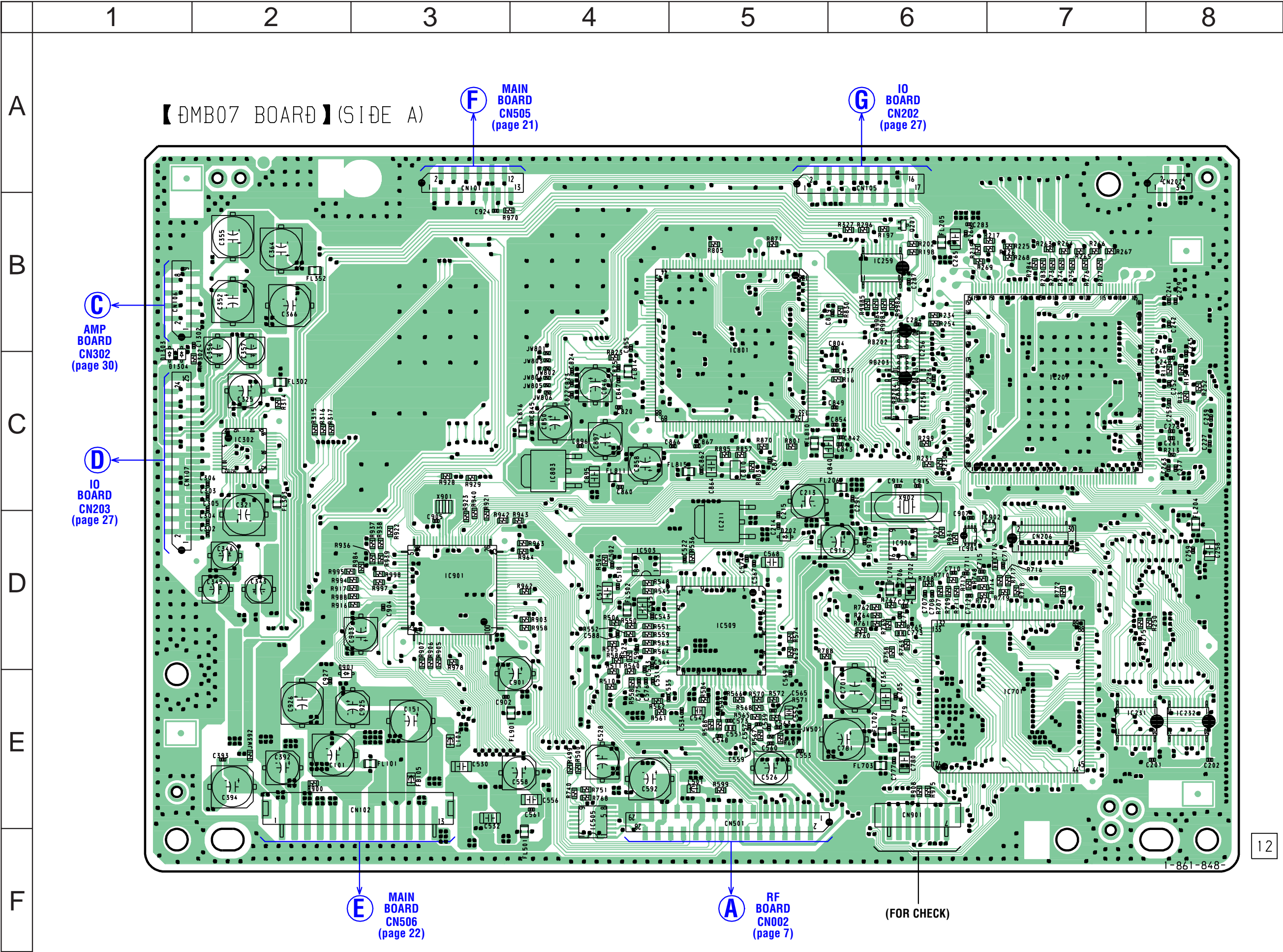


2-4. SCHEMATIC DIAGRAM — CD MECHANISM SECTION —



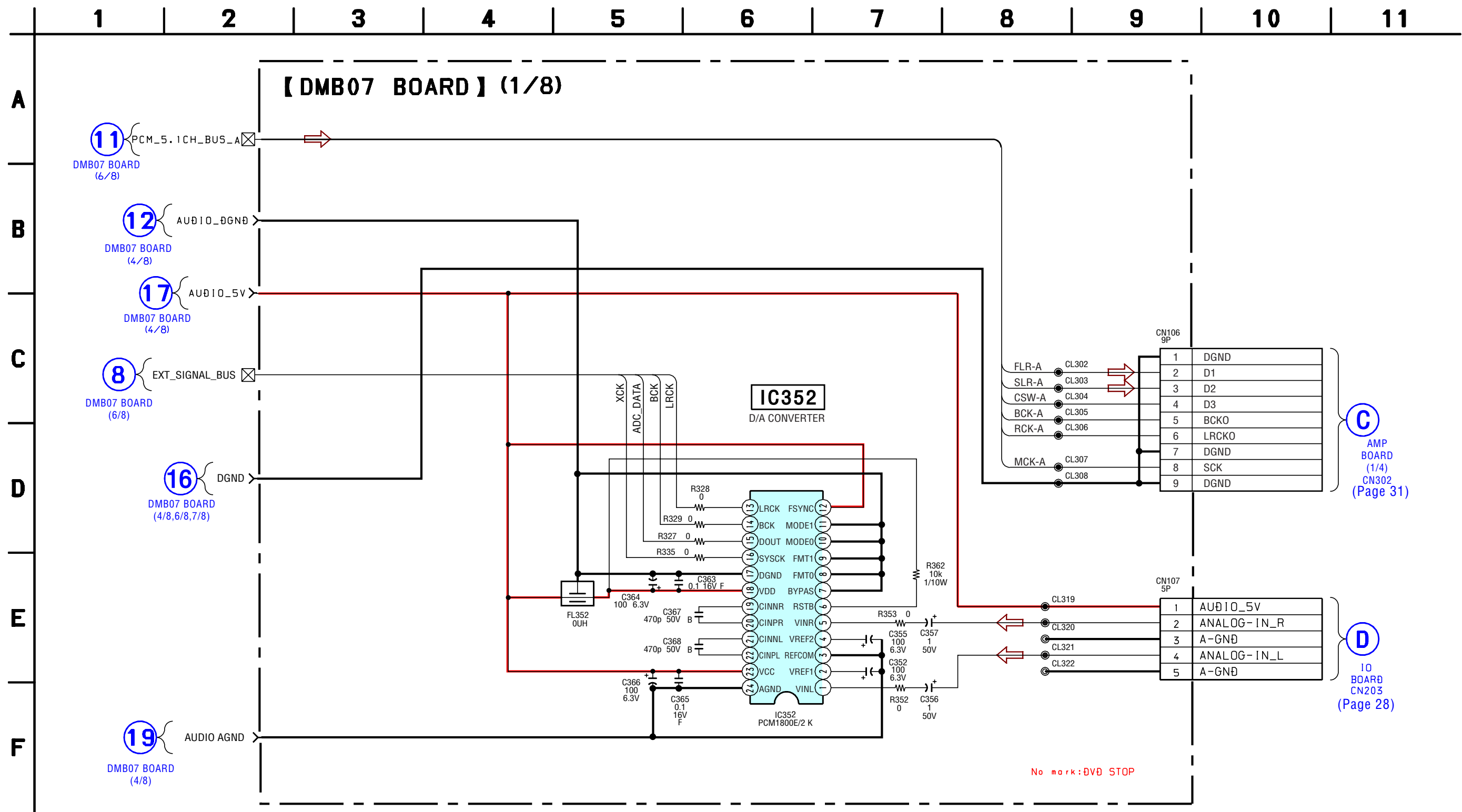
B
MAIN
BOARD
(2/2)
CN513
(Page 24)

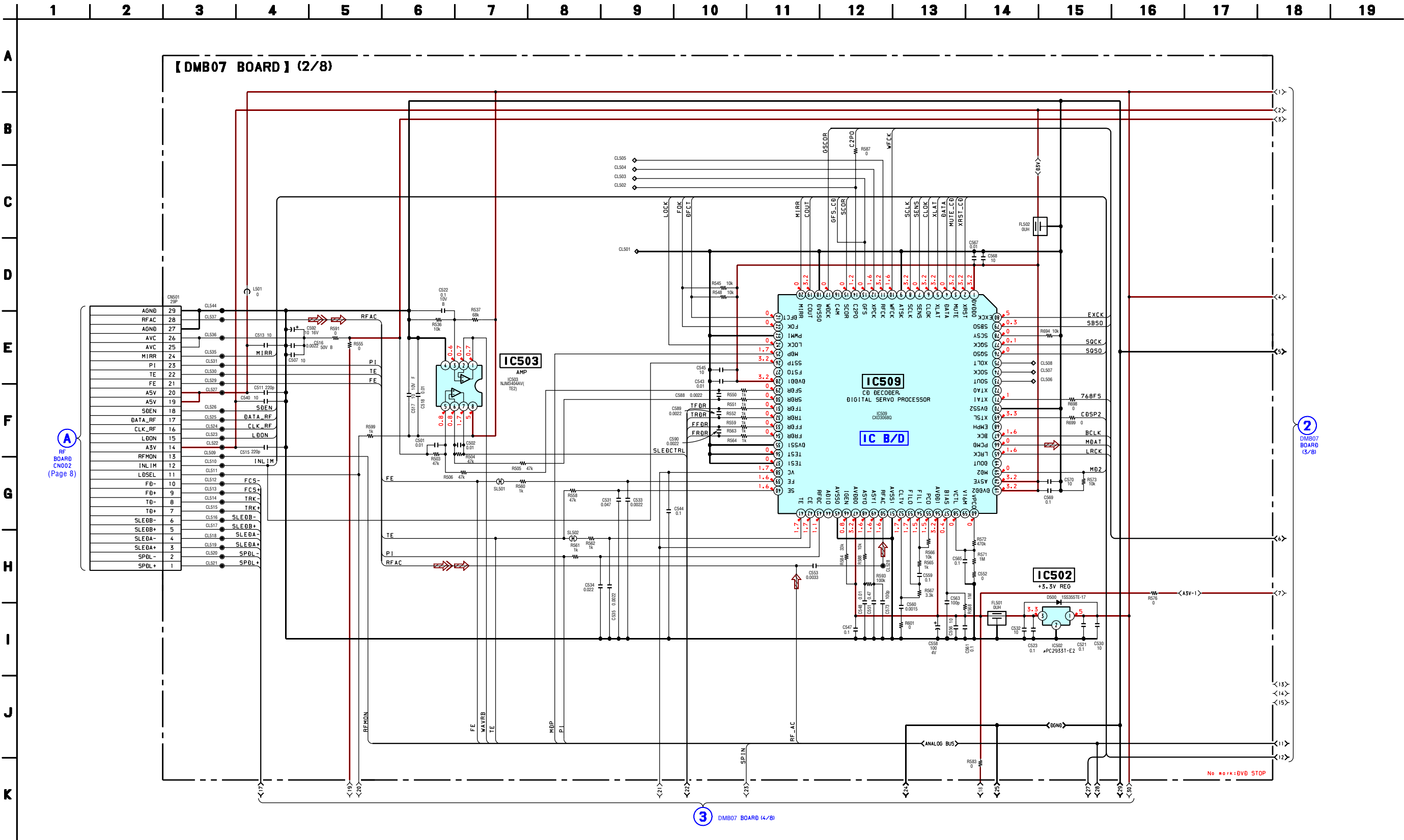
2-5. PRINTED WIRING BOARD — DMB07 SECTION (SIDE A) —



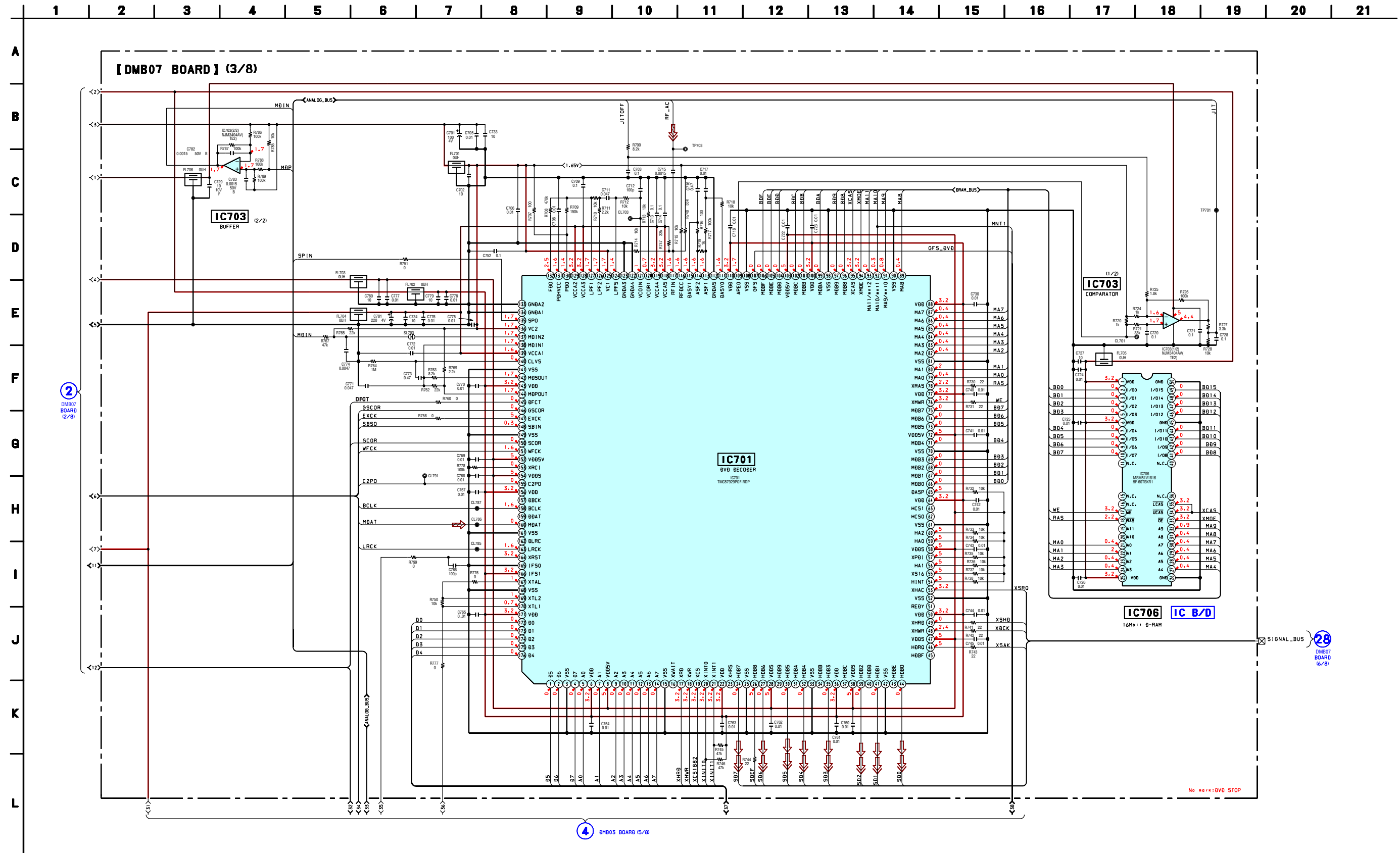
HCD-BC150/BC250

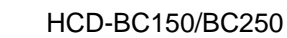
2-7. SCHEMATIC DIAGRAM — DMB07 SECTION (1/8) —



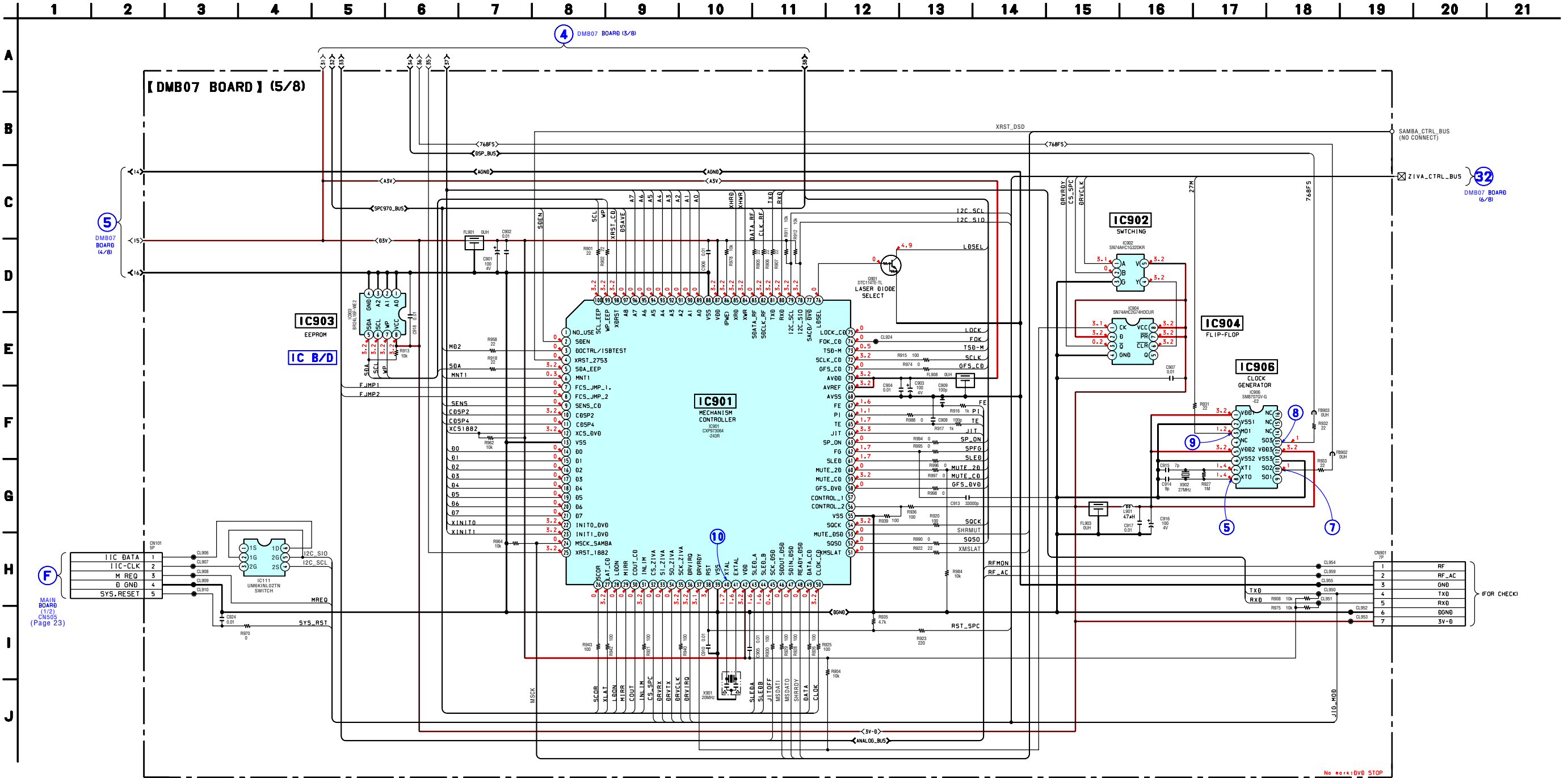


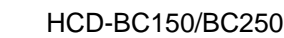
2-9. SCHEMATIC DIAGRAM — DMB07 SECTION (3/8) —

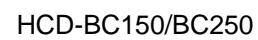


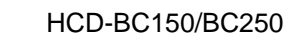


2-11. SCHEMATIC DIAGRAM — DMB07 SECTION (5/8) —



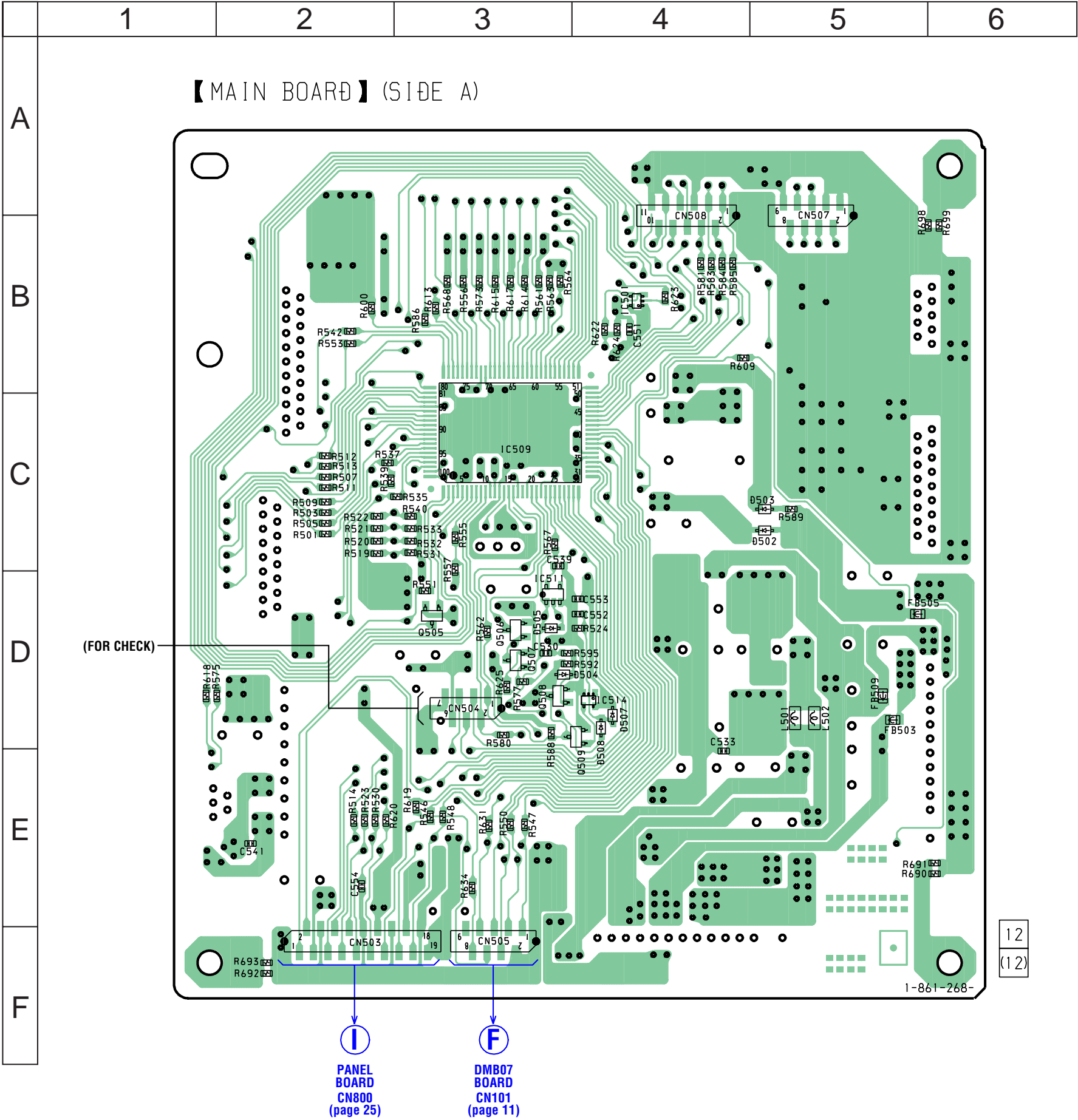


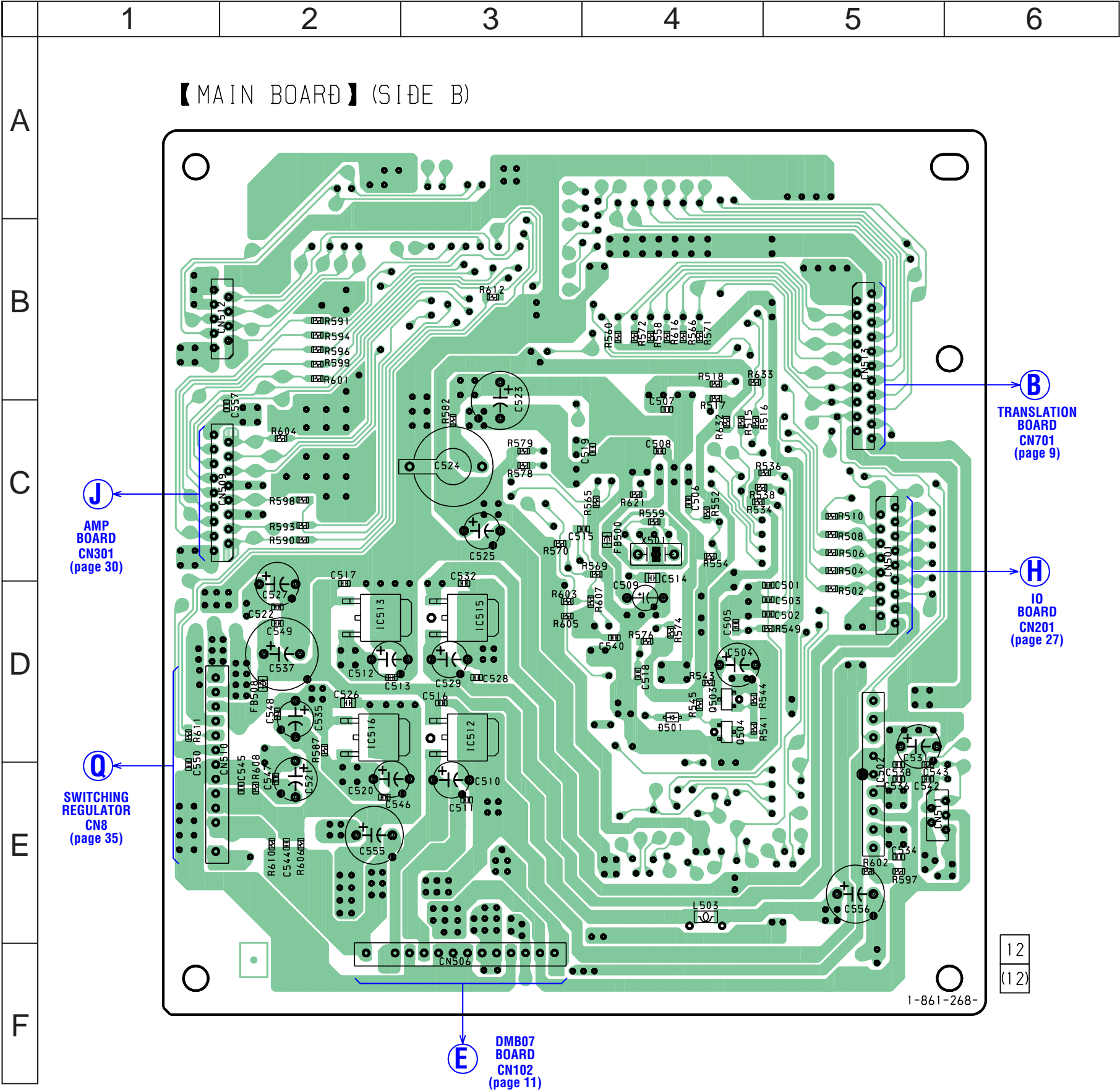




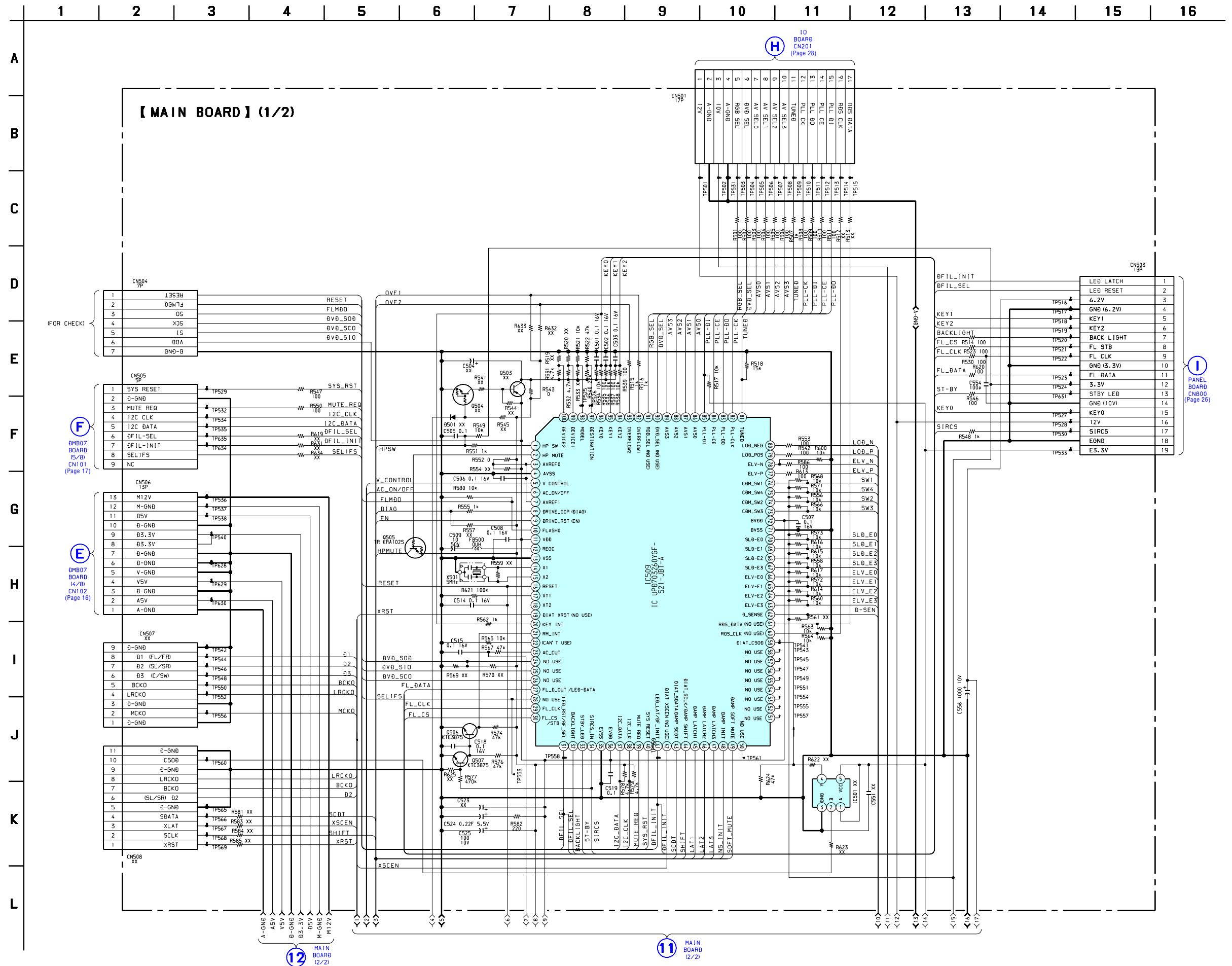
2-15. PRINTED WIRING BOARD — MAIN SECTION (SIDE A) —

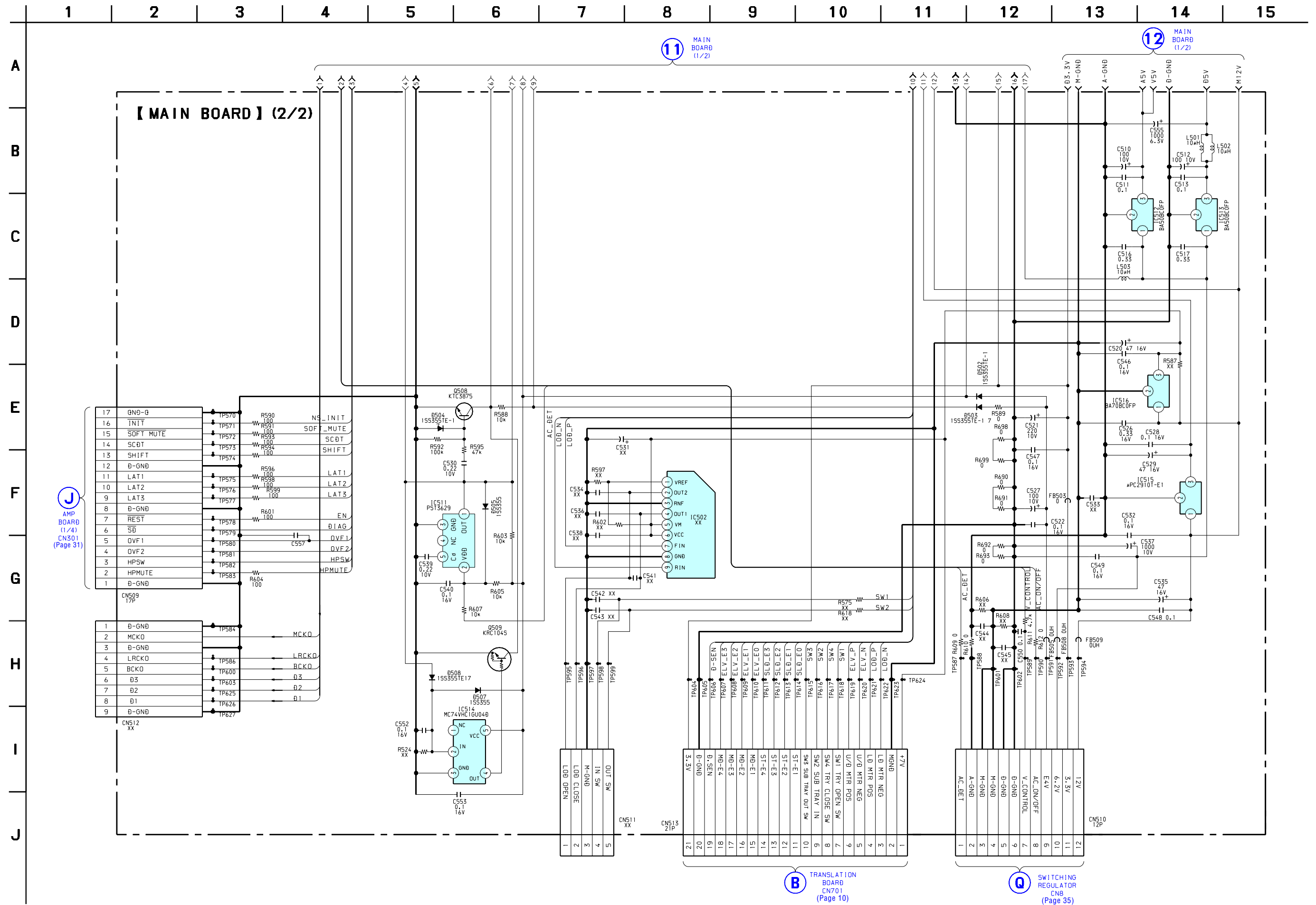
 :Uses unleaded solder.





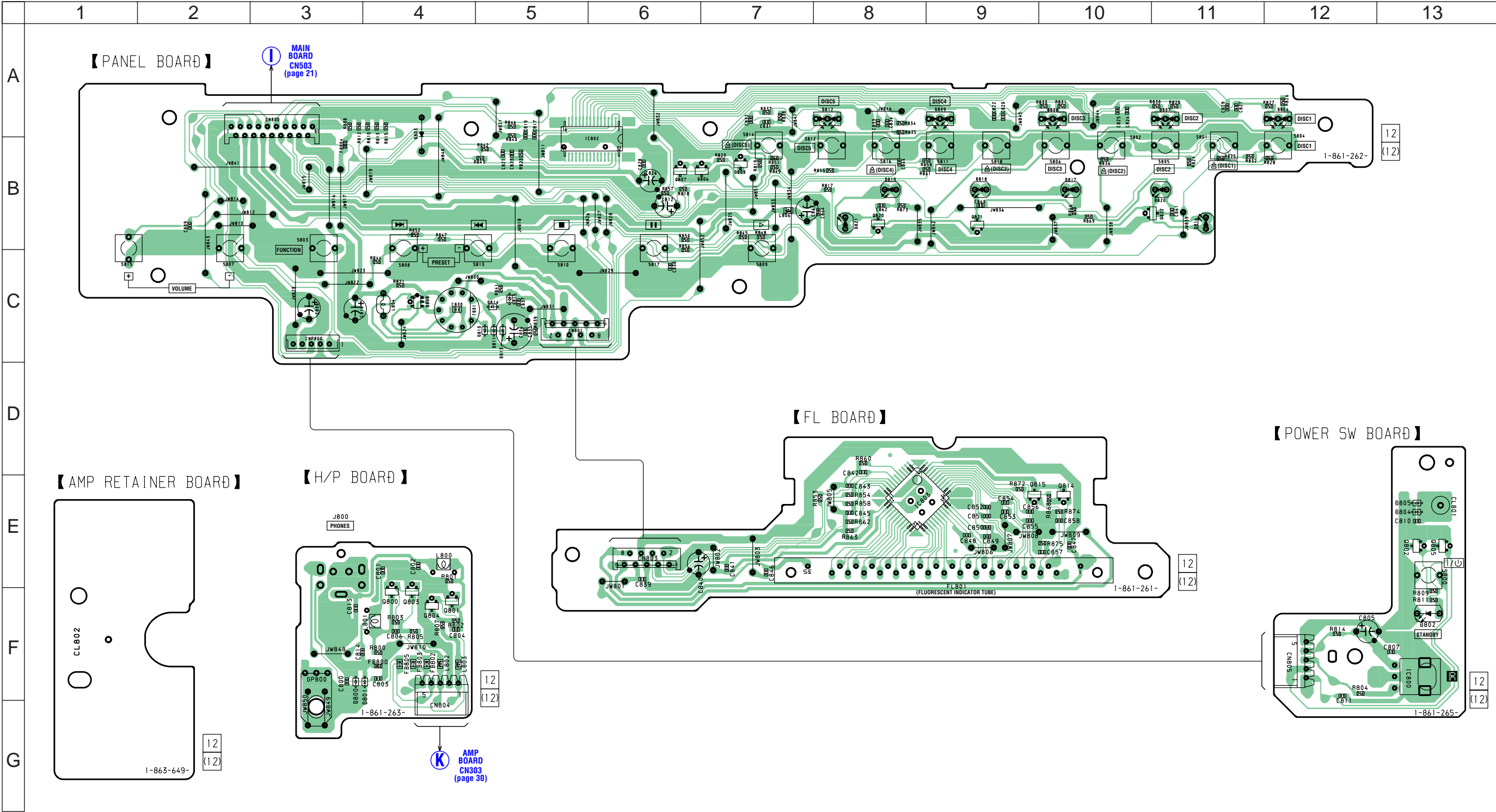
2-17. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) —

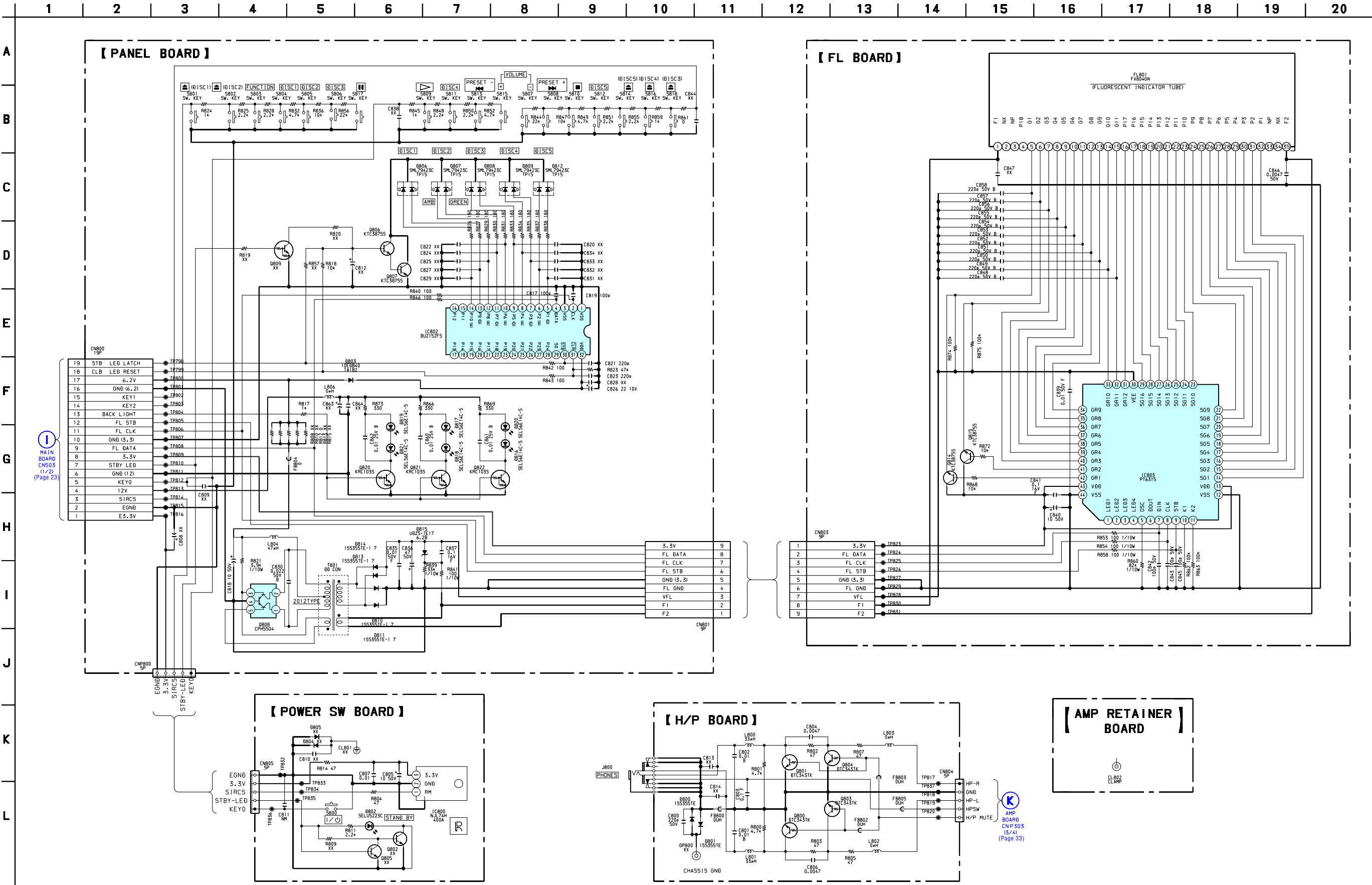




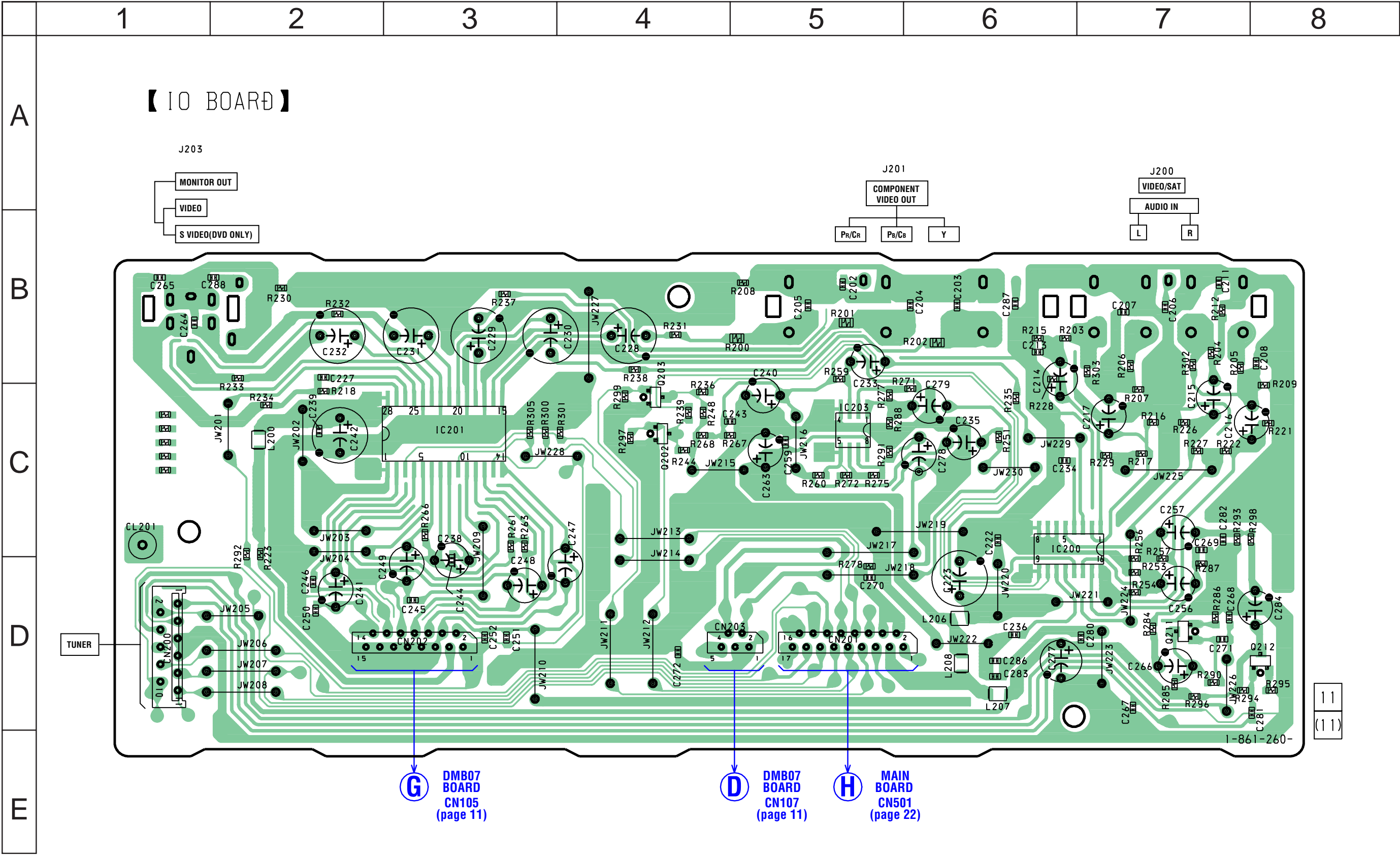
2-19. PRINTED WIRING BOARD — PANEL/FL/POWER SW/H/P/AMP RETAINER SECTION —

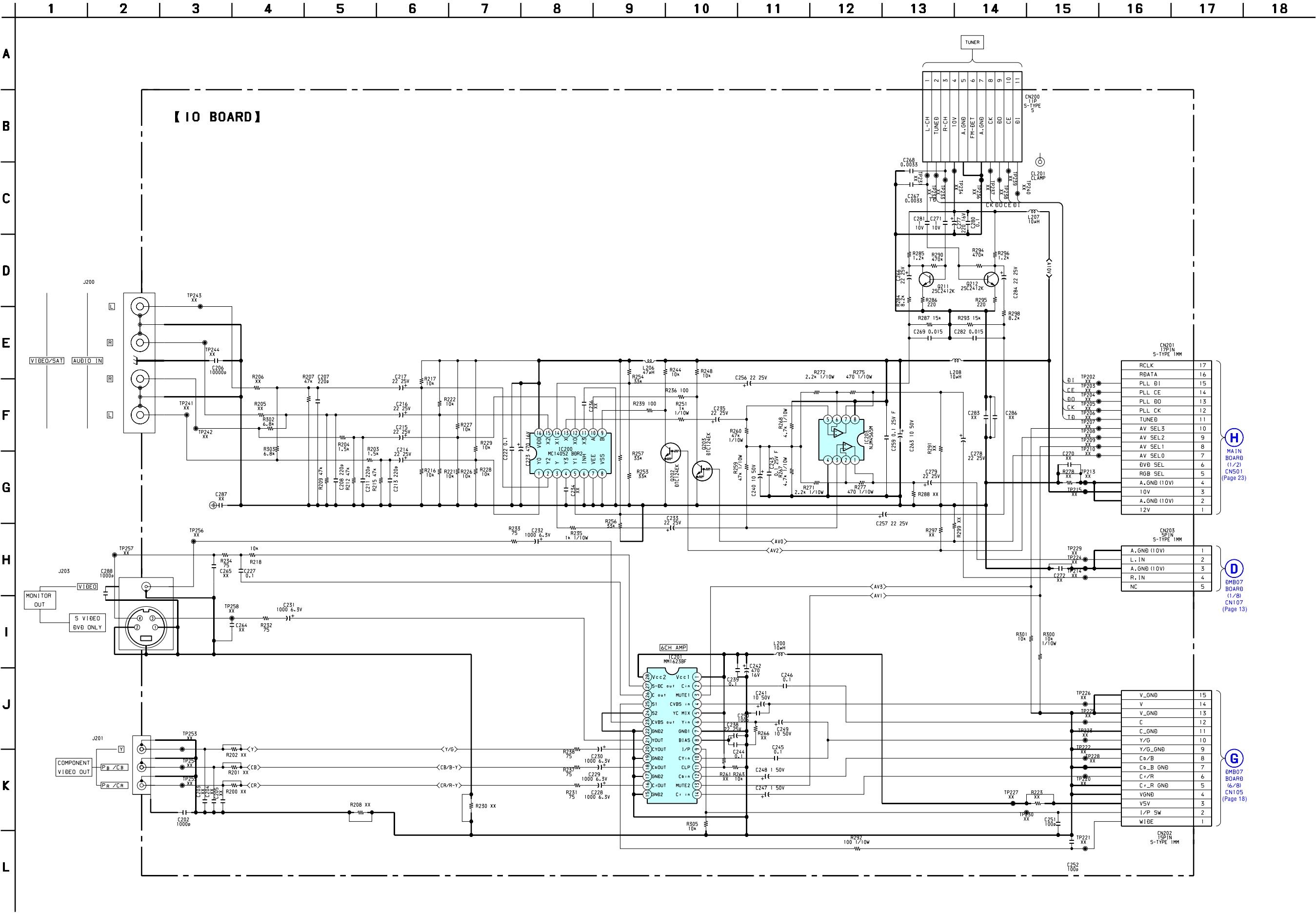
 :Uses unleaded solder.



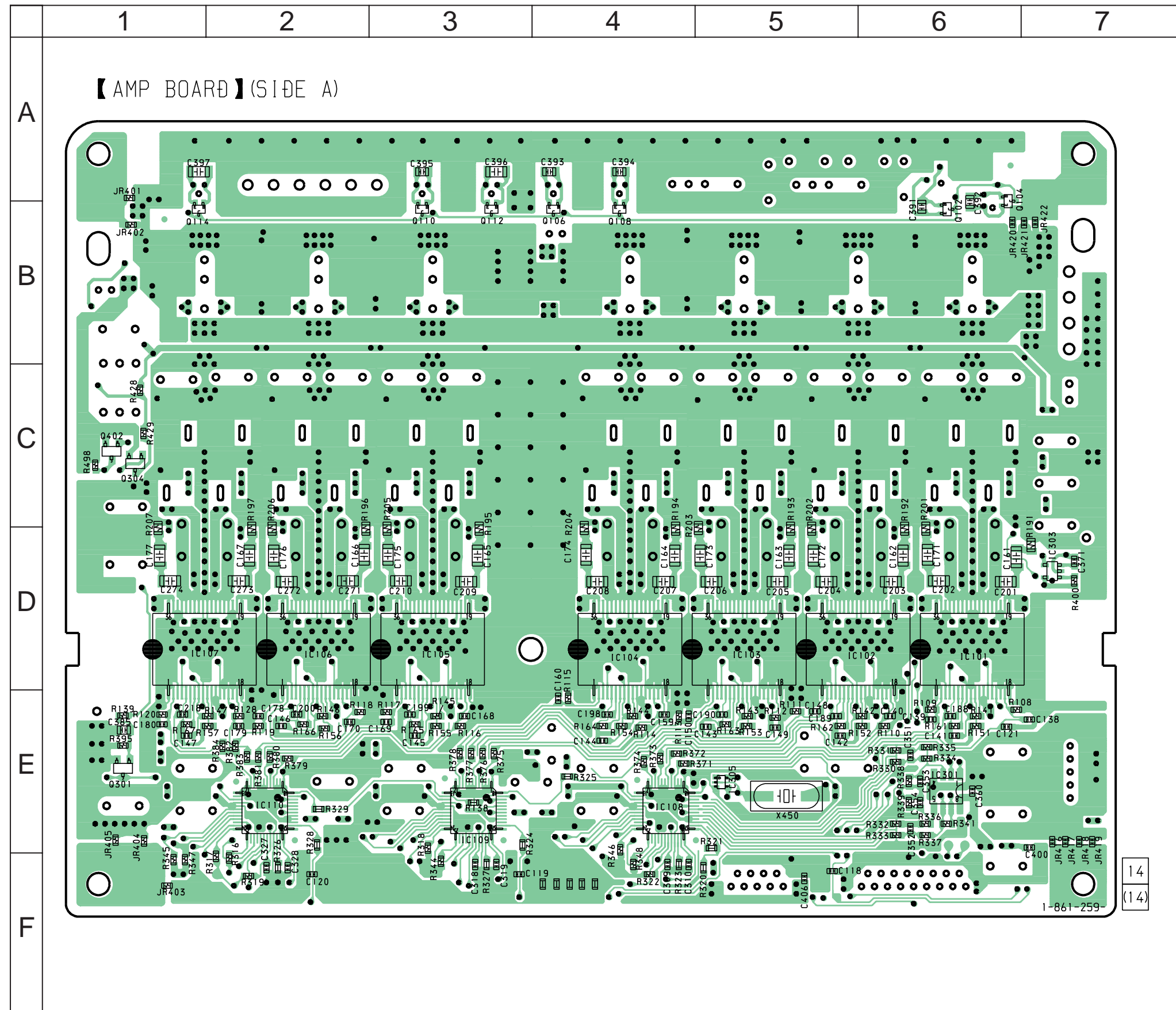


 :Uses unleaded solder.

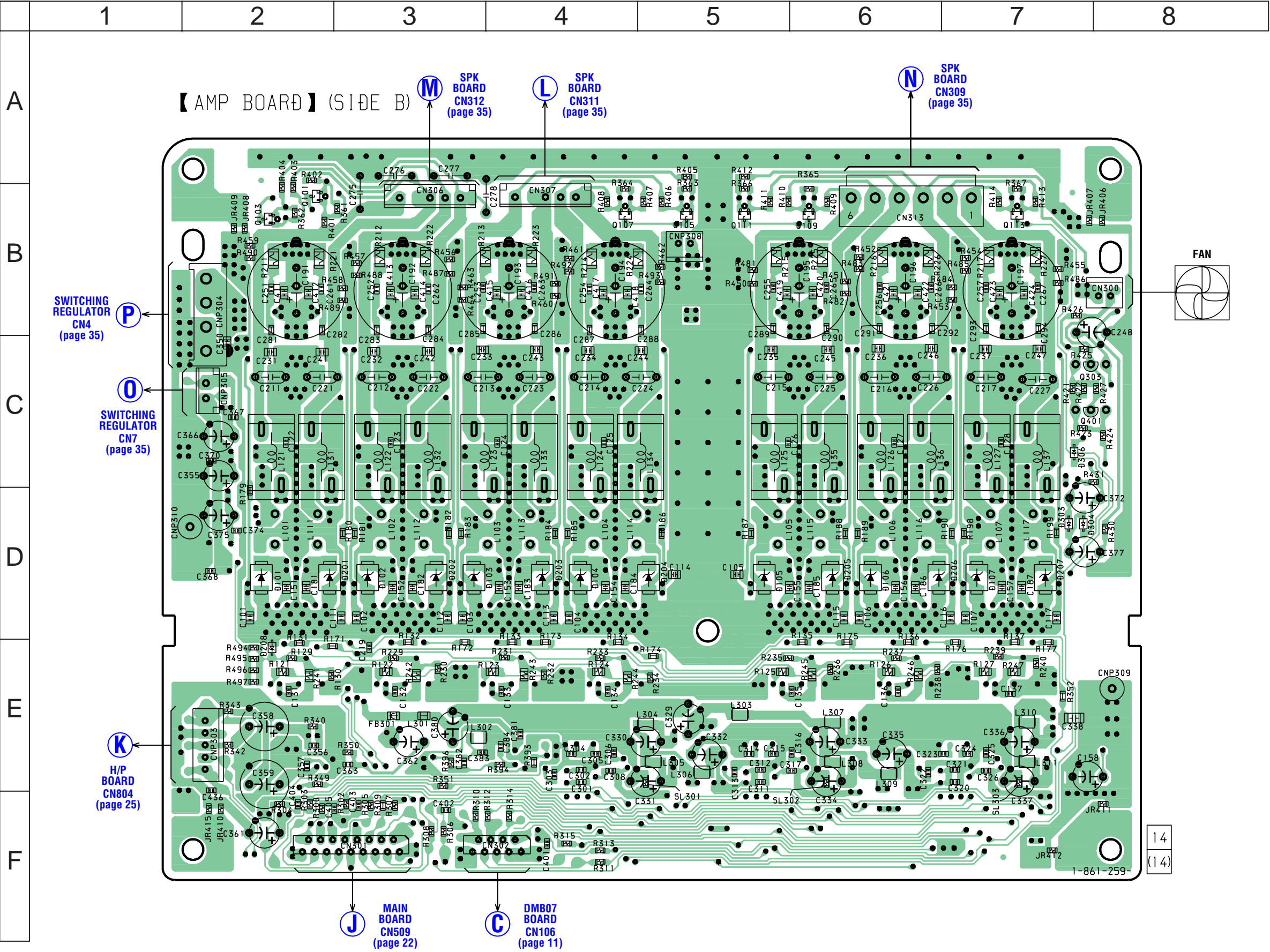




 :Uses unleaded solder.

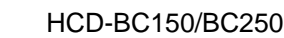


 :Uses unleaded solder.

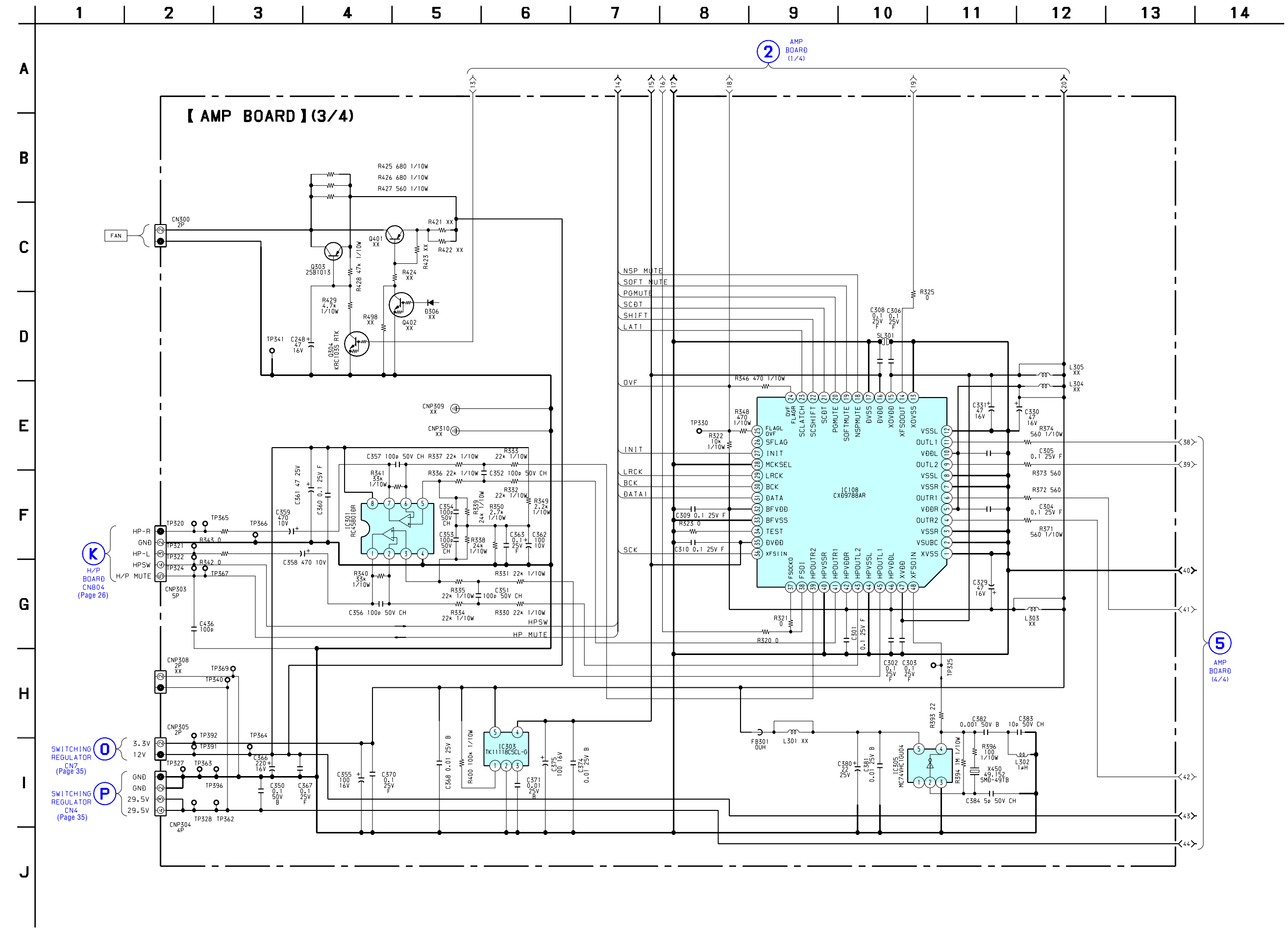


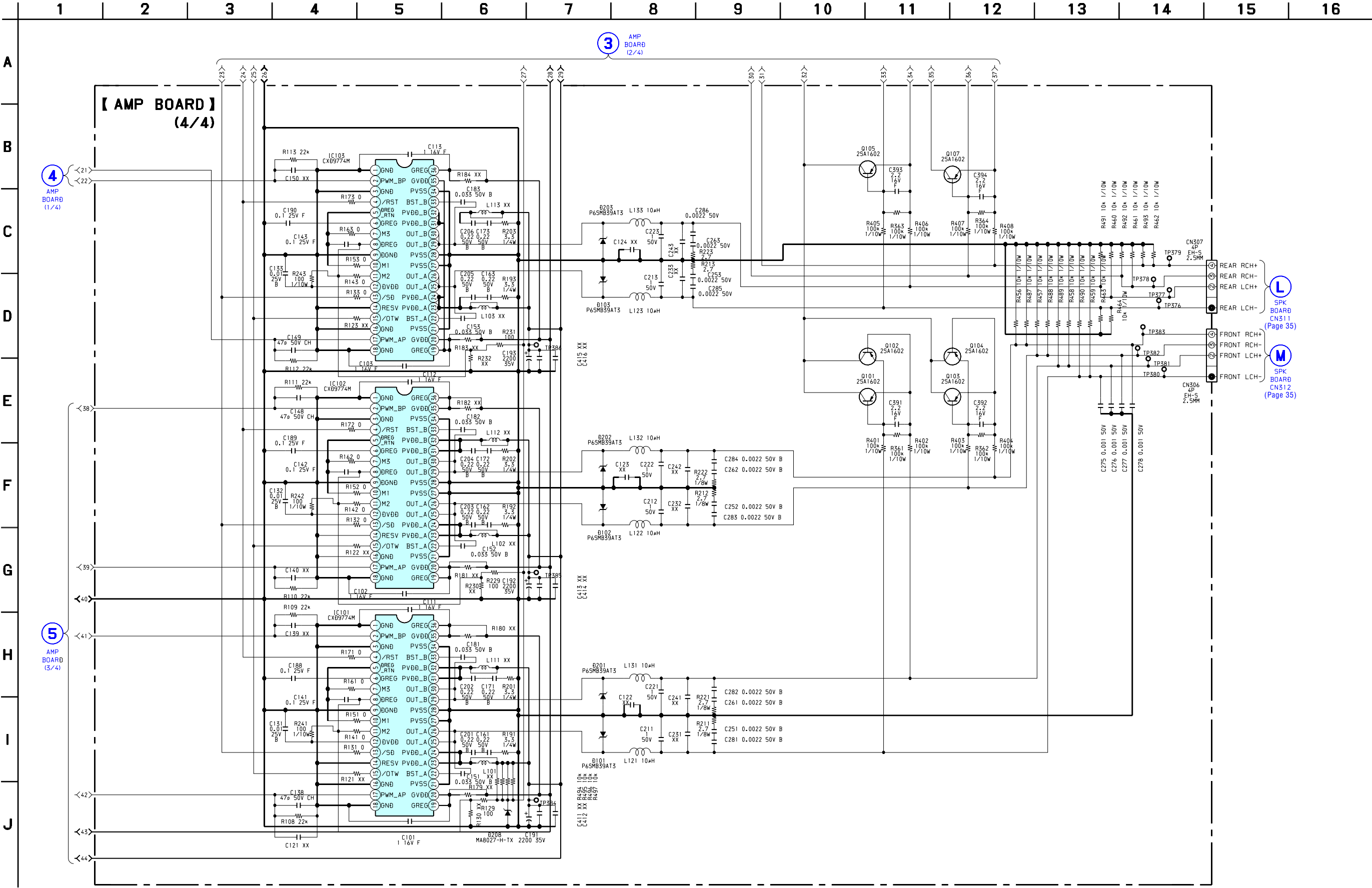
31





2-27. SCHEMATIC DIAGRAM — AMP SECTION (3/4) —

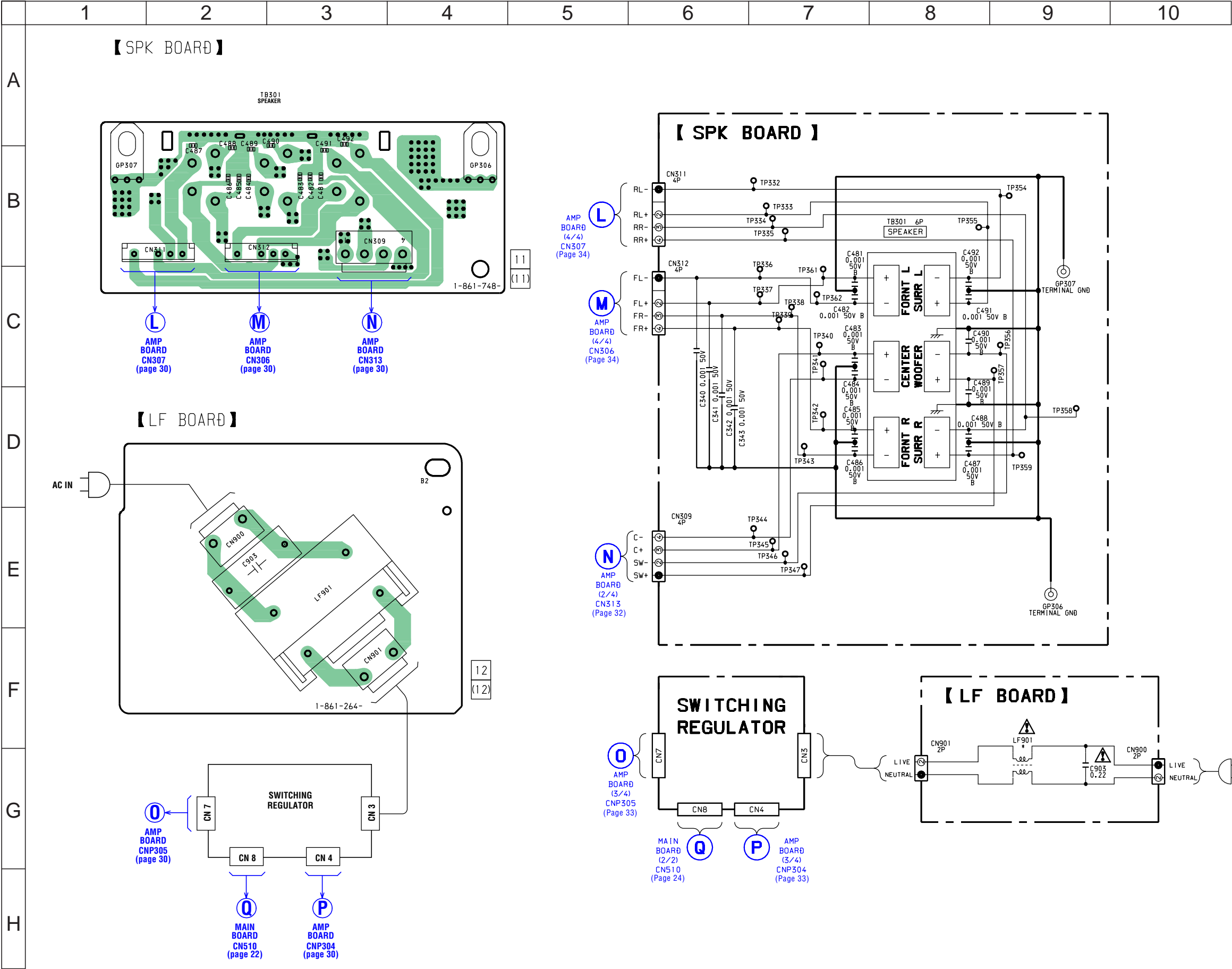




2-29. PRINTED WIRING BOARD — SPK/LF SECTION —

 :Uses unleaded solder.

2-30. SCHEMATIC DIAGRAM — SPK/LF SECTION —





SECTION 3
EXPLODED VIEWS


NOTE:

- XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

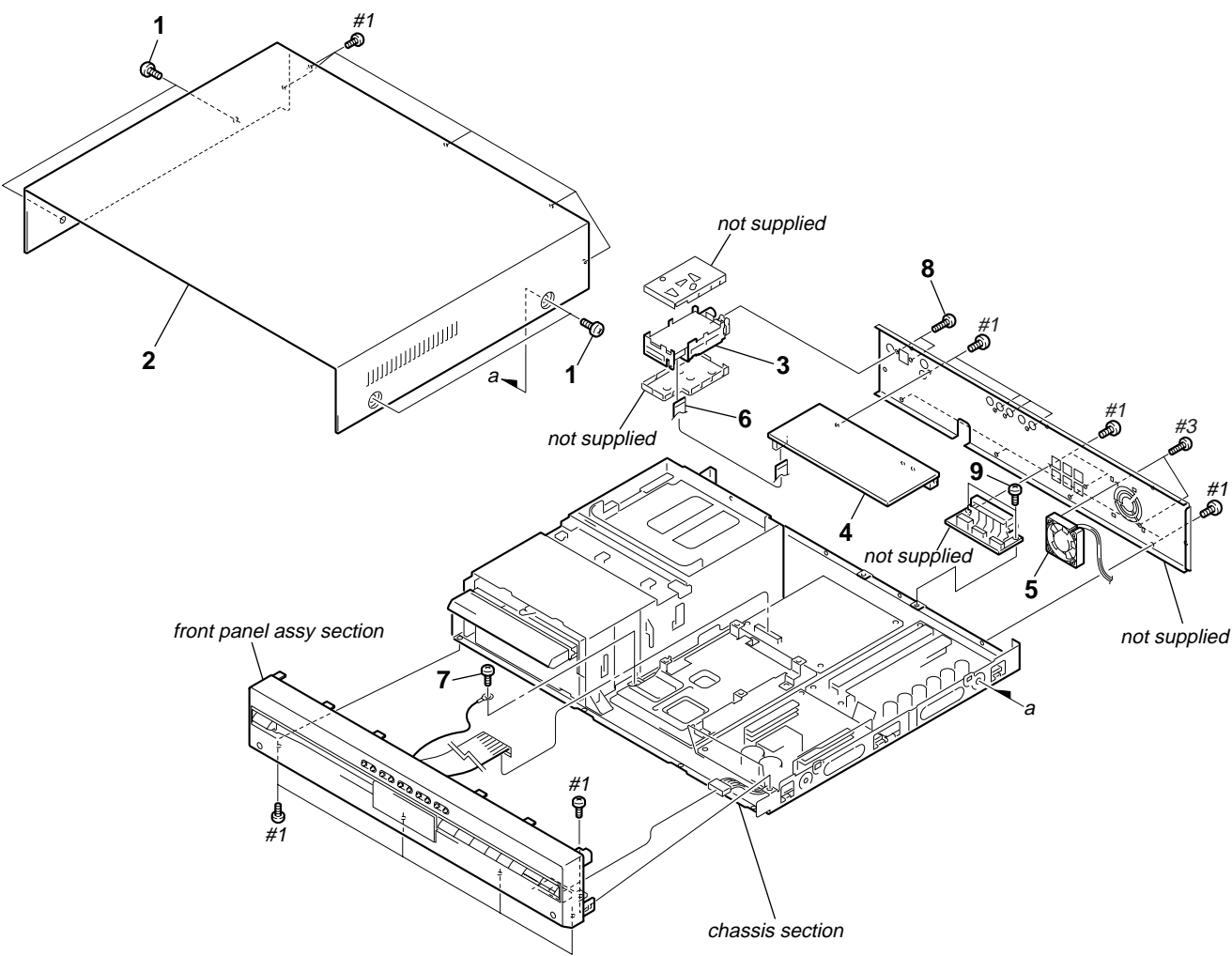
• Abbreviation

| | |
|-----|---------------------------|
| AUS | : Australian model |
| CND | : Canadian model |
| E41 | : 230V AC Area in E model |
| EA | : Saudi Arabia model |
| KR | : Korea model |
| MX | : Mexican model |
| TW | : Taiwan model |

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

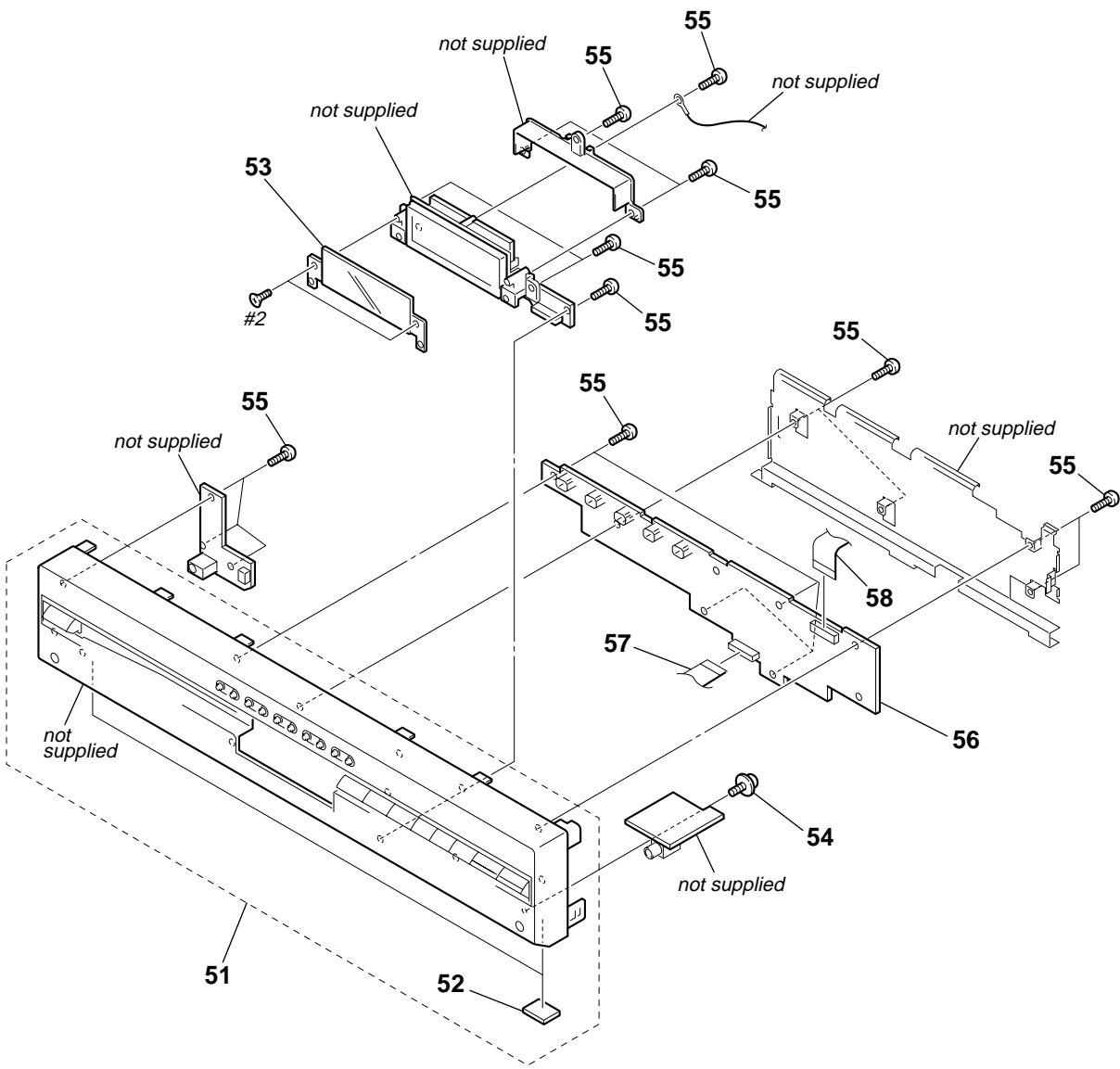
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

3-1. OVERALL SECTION



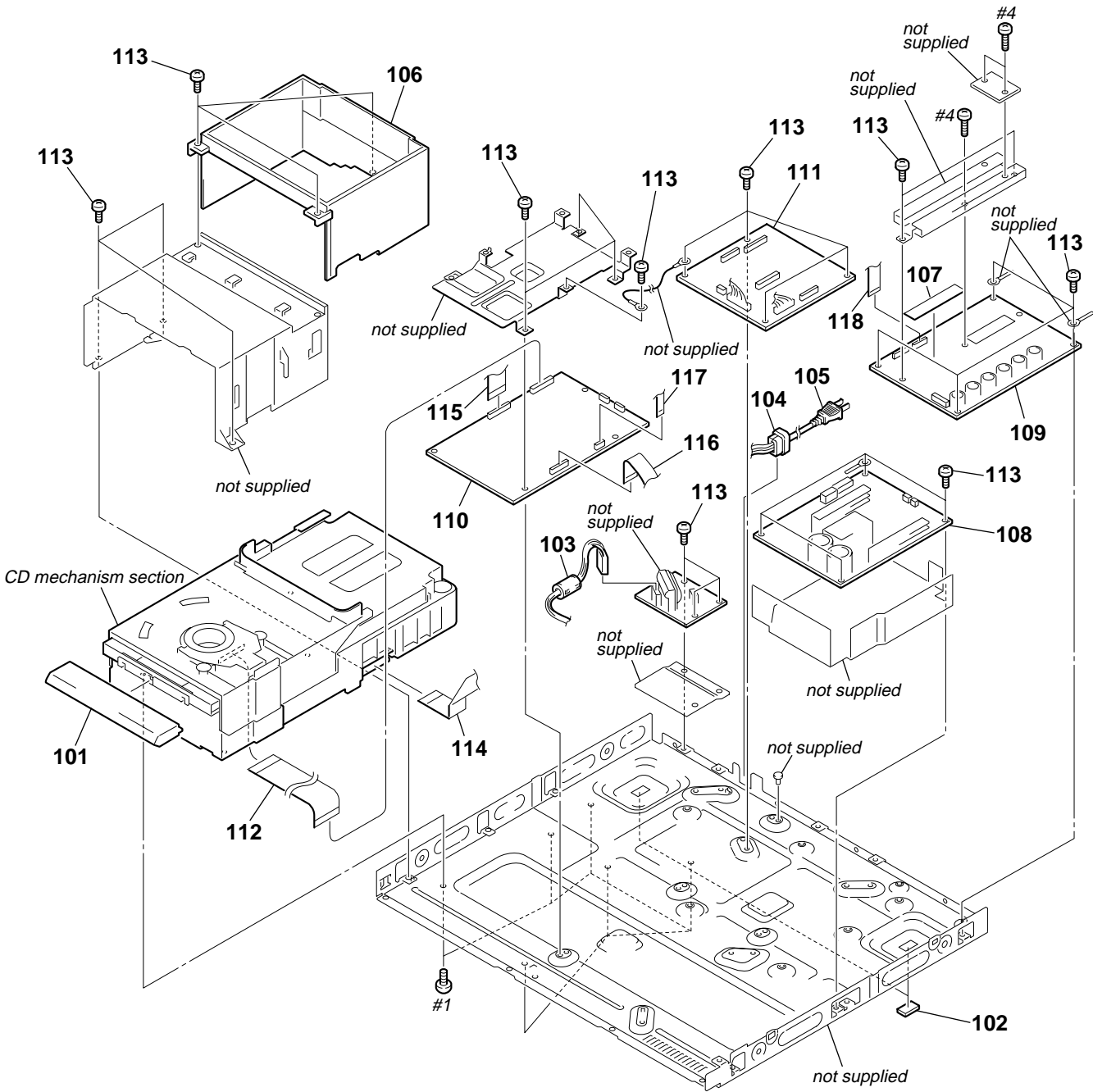
| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|---|--------|----------|--------------|-----------------------------------|--------|
| 1 | 4-221-580-01 | SCREW, CASE (EXCEPT KR) | | 4 | A-1053-130-A | IO BOARD, COMPLETE (AUS) | |
| 1 | 3-363-099-22 | SCREW (CASE 3 TP2) (KR) | | 5 | 1-763-861-12 | FAN, DC | |
| 2 | 4-252-117-01 | CASE | | 6 | 1-828-962-11 | WIRE (FLAT TYPE) (11 CORE) | |
| 3 | A-4750-570-A | TUNER BOARD, UNIT (KR) | | 7 | 3-077-331-01 | +BV3 (3-CR) | |
| 3 | A-4750-571-A | TUNER BOARD, UNIT (150: MX, TW, EA, E41, AUS/250: MX) | | 8 | 4-931-757-31 | SCREW (DIA.2.6X8) (IT3B), TAPPING | |
| 3 | A-4750-572-A | TUNER BOARD, UNIT (US, CND) | | #1 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S | |
| 4 | A-4752-746-A | IO BOARD, COMPLETE (EXCEPT AUS) | | #3 | 7-685-881-09 | SCREW +BVTT 4X8 (S) | |

3-2. FRONT PANEL SECTION



| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|---|--------|----------|--------------|-----------------------------------|--------|
| 51 | X-4956-431-1 | PANEL (BC) ASSY, FRONT (150: US, CND) | | 54 | 4-985-672-01 | SCREW (+PTPWHM2.6), FLOATING | |
| 51 | X-2021-091-1 | PANEL ASSY, FRONT (150: MX, TW, EA, E41, KR, AUS) | | 55 | 4-931-757-31 | SCREW (DIA.2.6X8) (IT3B), TAPPING | |
| 51 | X-2022-054-1 | PANEL ASSY, FRONT (250: US, CND) | | 56 | A-4752-728-A | PANEL BOARD, COMPLETE | |
| 51 | X-2022-524-1 | FRONT PANEL ASSY (250: MX) | | 57 | 1-962-870-11 | WIRE (FLAT TYPE) (9 CORE) | |
| 52 | 4-244-969-01 | FOOT | | 58 | 1-829-211-11 | WIRE (FLAT TYPE) (19 CORE) | |
| 53 | 4-252-123-11 | FL, WINDOW | | #2 | 7-685-233-14 | SCREW +KTP 2.6X6 TYPE2NON-SLIT | |

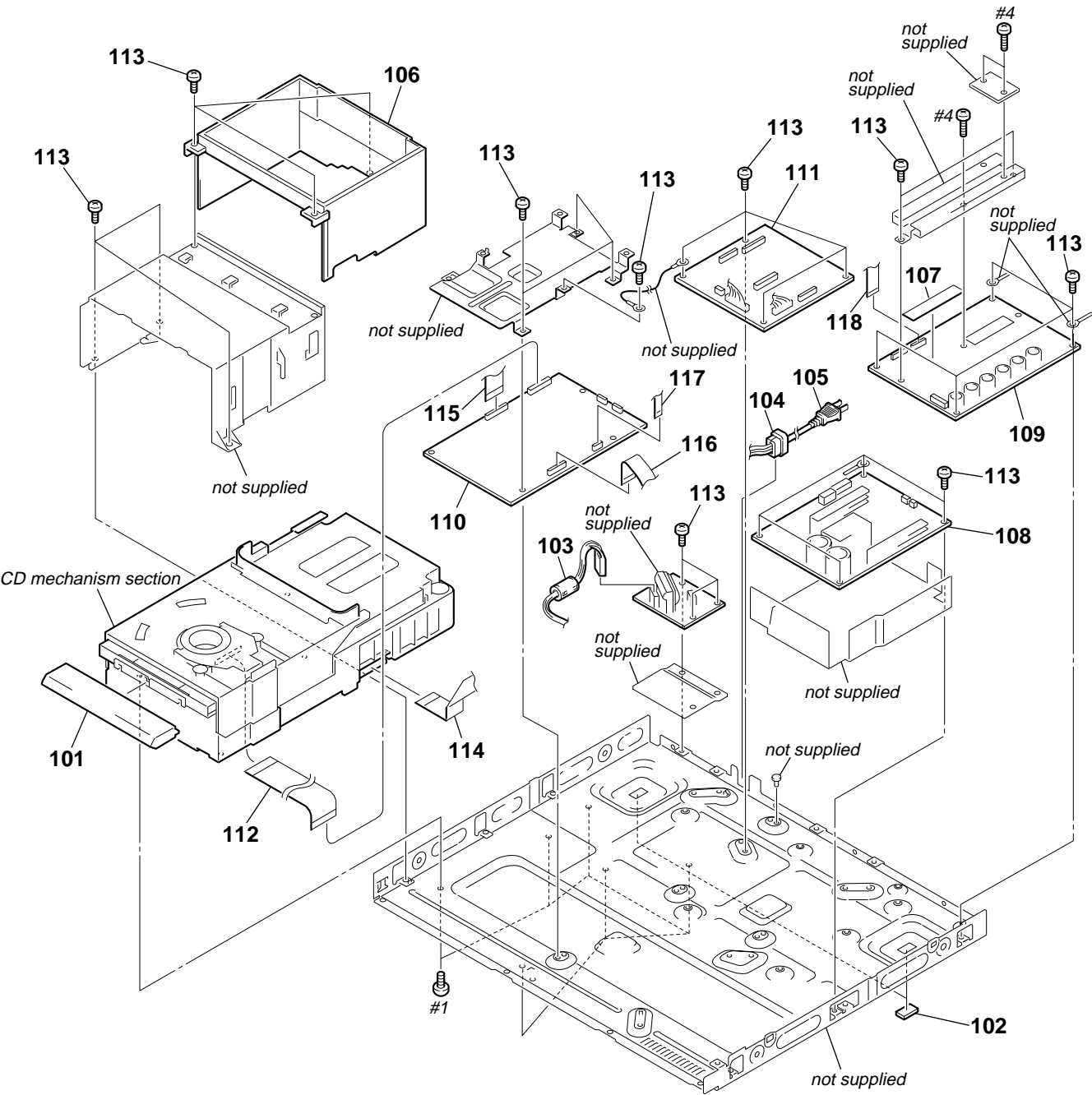
3-3. CHASSIS SECTION-1



| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|------------------------------|--------|----------|--------------|---|--------------------------|
| 101 | 4-252-116-01 | LID, DVD | | △ 108 | 1-468-836-12 | REGULATOR, SWITCHING (US, CND, MX, TW) | |
| 102 | 4-244-969-01 | FOOT | | △ 108 | 1-468-837-12 | REGULATOR, SWITCHING (EA, E41, KR, AUS) | |
| 103 | 1-500-386-21 | FILTER, CLAMP (FERRITE CORE) | | 109 | A-1052-860-A | AMP BOARD, COMPLETE (150: MX) | |
| 104 | 4-217-350-11 | STOPPER, CORD | | 109 | A-1053-123-A | AMP BOARD, COMPLETE (TW, EA, AUS) | |
| △ 105 | 1-783-531-72 | CORD, POWER (US, CND) | | 109 | A-1054-633-A | AMP BOARD, COMPLETE (E41) | |
| △ 105 | 1-696-169-51 | CORD, POWER (E41) | | 109 | A-1062-134-A | AMP BOARD, COMPLETE (250: US, CND) | |
| △ 105 | 1-696-847-22 | CORD, POWER (AUS) | | 109 | A-1067-906-A | AMP BOARD, COMPLETE (250: MX) | |
| △ 105 | 1-751-520-21 | CORD, POWER (EA) | | 109 | A-4752-734-A | AMP BOARD, COMPLETE (150: US, CND, KR) | |
| △ 105 | 1-775-789-91 | CORD, POWER (MX) | | 110 | A-1052-868-A | DMB07 BOARD, COMPLETE (150: MX) | |
| △ 105 | 1-827-597-41 | CORD, POWER (TW) | | 110 | A-1053-135-A | DMB07 BOARD, COMPLETE (TW, EA, KR, AUS) | |
| △ 105 | 1-769-079-32 | CORD, POWER (KR) | | | | | - Continued on page 38 - |
| 106 | 2-021-013-01 | REAR COVER, MD | | | | | |
| 107 | 4-254-947-11 | SHEET (AMP), RADIATION | | | | | |

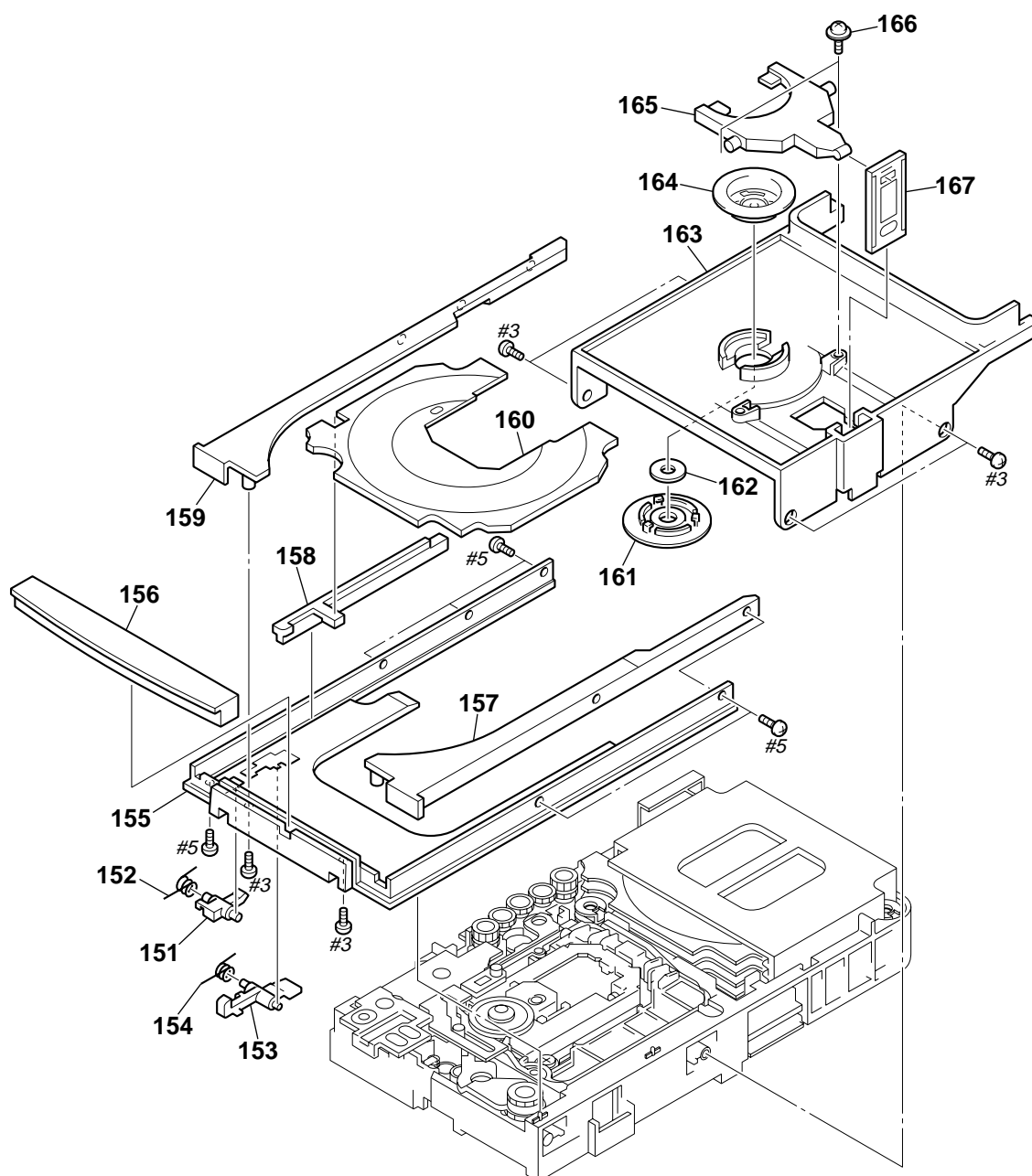
| | |
|--|--|
| The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |
|--|--|

3-4. CHASSIS SECTION-2



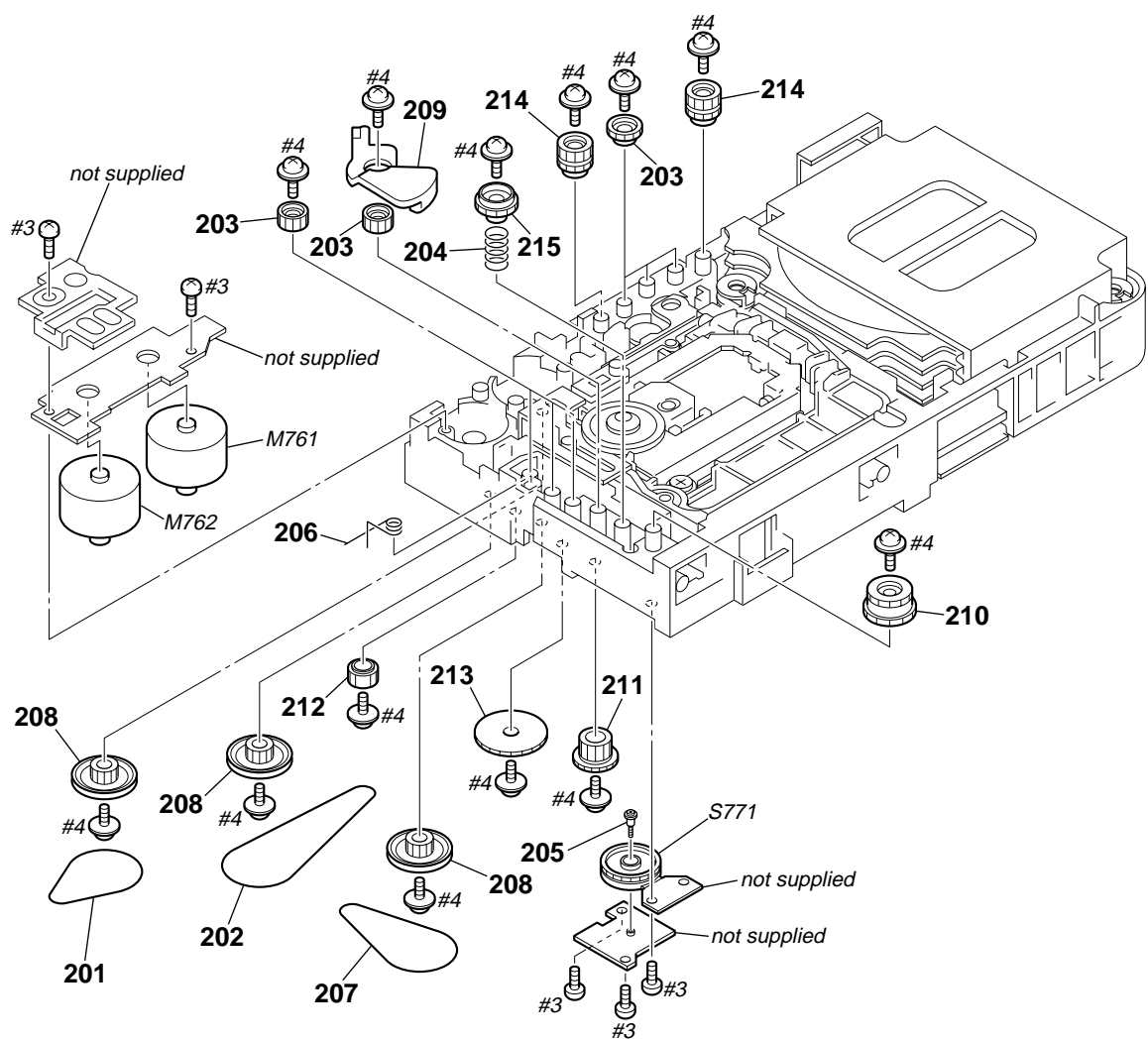
| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------------------------|--------------|-------------------------------------|--------|----------|--------------|-------------------------------------|--------|
| - Continued from page 37 - | | | | 111 | A-4752-751-A | MAIN BOARD, COMPLETE (150: US, CND) | |
| 110 | A-1054-641-A | DMB07 BOARD, COMPLETE (E41) | | 112 | 1-828-411-11 | WIRE (FLAT TYPE) (29 CORE) | |
| 110 | A-4752-761-A | DMB07 BOARD, COMPLETE | | 113 | 3-077-331-01 | +BV3 (3-CR) | |
| | | (150: US, CND/250) | | 114 | 1-828-371-11 | WIRE (FLAT TYPE) (21 CORE) | |
| 111 | A-1052-864-A | MAIN BOARD, COMPLETE (150: MX) | | 115 | 1-828-349-11 | WIRE (FLAT TYPE) (17 CORE) | |
| 111 | A-1053-127-A | MAIN BOARD, COMPLETE (AUS) | | 116 | 1-829-212-11 | WIRE (FLAT TYPE) (15 CORE) | |
| 111 | A-1054-637-A | MAIN BOARD, COMPLETE (E41) | | 117 | 1-962-869-11 | WIRE (FLAT TYPE) (5 CORE) | |
| 111 | A-1062-037-A | MAIN BOARD, COMPLETE (250: US, CND) | | 118 | 1-828-954-11 | WIRE (FLAT TYPE) (9 CORE) | |
| 111 | A-1065-470-A | MAIN BOARD, COMPLETE (EA) | | #1 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S | |
| 111 | A-1065-499-A | MAIN BOARD, COMPLETE (TW, KR) | | #4 | 7-685-650-79 | SCREW +BVTP 3X16 TYPE2 IT-3 | |
| 111 | A-1067-908-A | MAIN BOARD, COMPLETE (250: MX) | | | | | |

3-5. CD MECHANISM SECTION-1 (CDM81A-DVBU27)



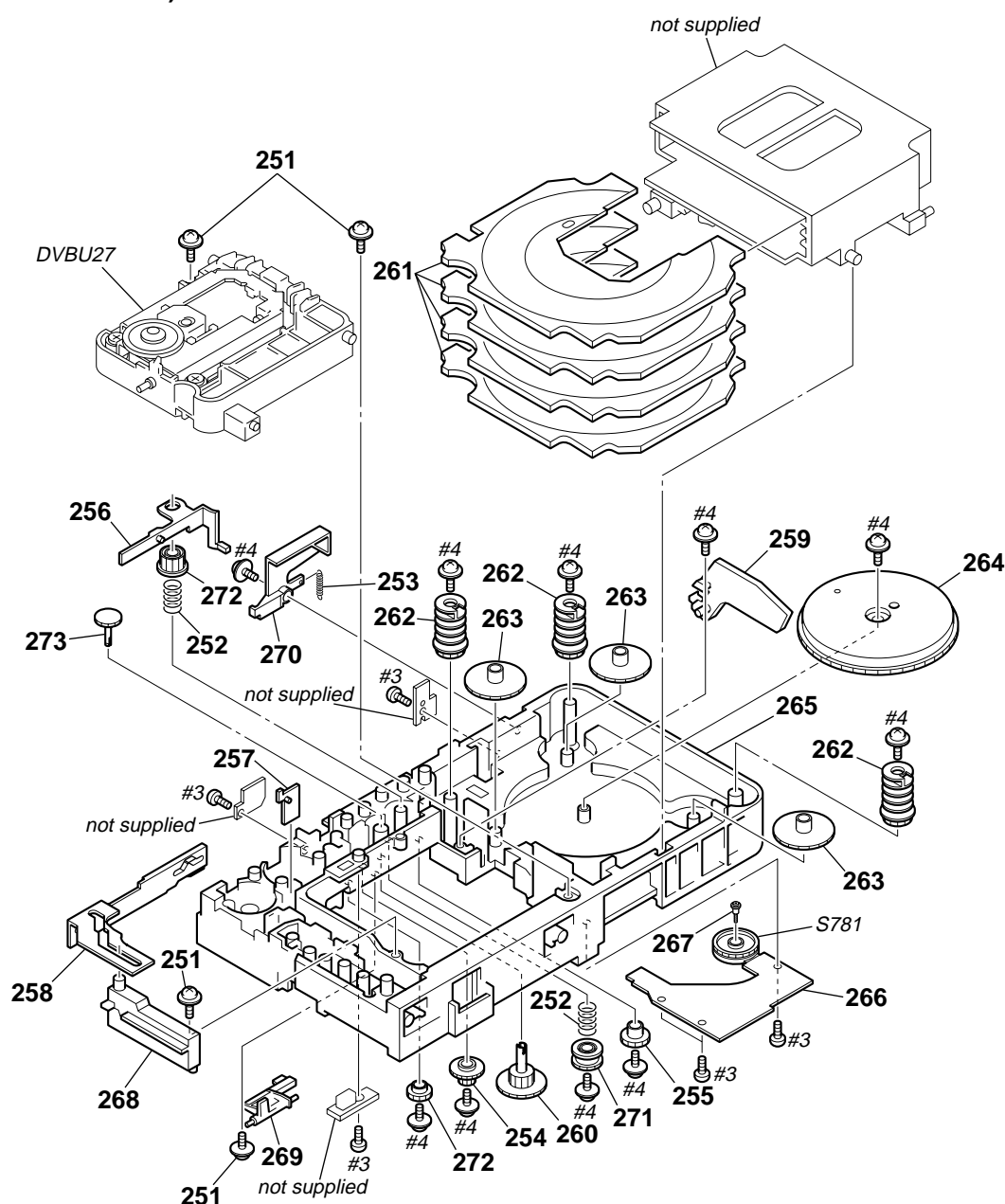
| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|------------------------|--------|----------|--------------|------------------------------|--------|
| 151 | 4-251-849-01 | LEVER (SW2) | | 161 | X-4954-450-1 | PULLEY (240) ASSY | |
| 152 | 4-251-991-01 | SPRING (SW2), TORSION | | 162 | 3-053-844-01 | YOKE | |
| 153 | 4-251-860-01 | LEVER (LOCK) | | 163 | 4-251-821-02 | BRACKET (TOP) | |
| 154 | 4-251-867-01 | SPRING (LOCK), TORSION | | 164 | 4-233-594-01 | PULLEY (B) (DVD), CHUCKING | |
| 155 | 4-251-828-01 | TRAY (MAIN) | | 165 | 4-251-824-01 | LIFTER | |
| 156 | 4-252-533-11 | PANEL, LOADING | | 166 | 4-985-672-01 | SCREW (+PTPWHM2.6), FLOATING | |
| 157 | 4-251-857-01 | COVER (R) | | 167 | 4-251-822-01 | JOINT (LIFTER) | |
| 158 | 4-251-830-01 | SLIDER (ST) | | #5 | 7-685-534-19 | SCREW +BTP 2.6X8 TYPE2 N-S | |
| 159 | 4-251-858-01 | COVER (L) | | #7 | 7-685-102-19 | SCREW +P 2X4 NON-SLIT TYPE 2 | |
| 160 | 4-251-829-02 | TRAY (SUB) | | | | | |

3-6. CD MECHANISM SECTION-2
(CDM81A-DVBU27)



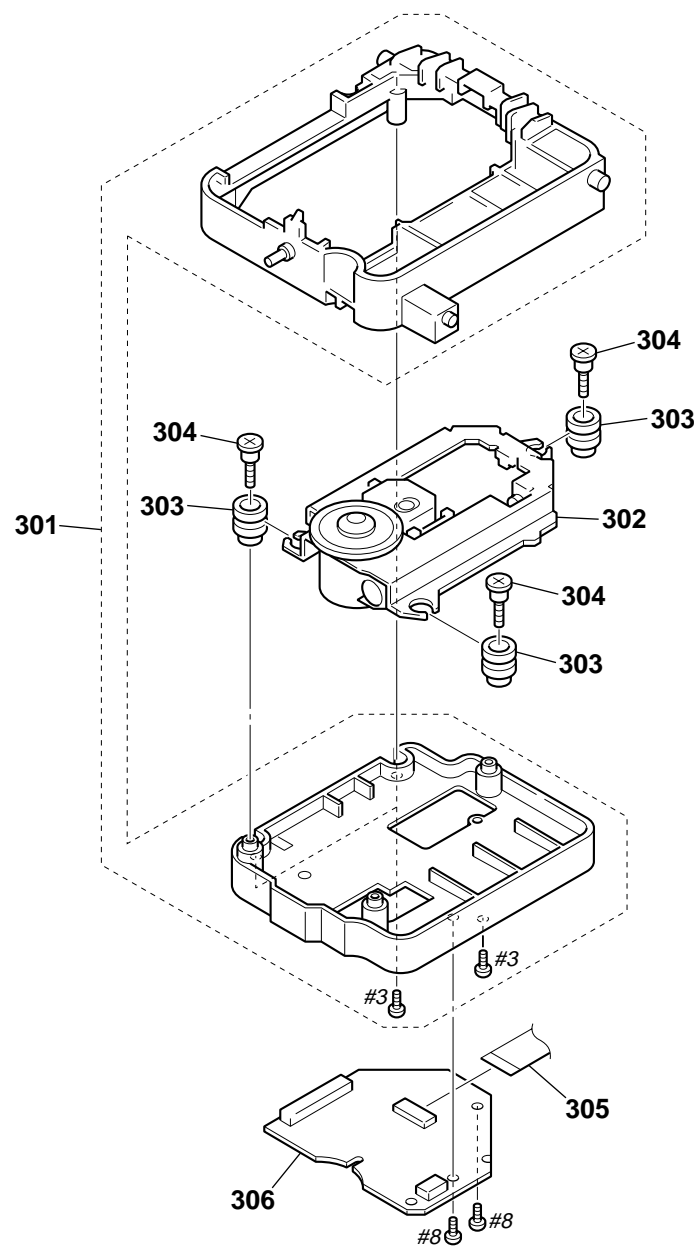
| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------------------|--------|----------|--------------|--------------------------------|--------|
| 201 | 4-251-870-01 | BELT (BU) | | 211 | 4-251-854-01 | GEAR (BU1) | |
| 202 | 4-251-869-01 | BELT (MAIN TRAY) | | 212 | 4-251-850-01 | GEAR (MAIN TRAY 1) | |
| 203 | 4-251-841-01 | GEAR (SUB TRAY 1) | | 213 | 4-251-856-01 | GEAR (BU2) | |
| 204 | 4-251-873-01 | SPRING (MODE), COMPRESSION | | 214 | 4-251-842-01 | GEAR (SUB TRAY 2) | |
| 205 | 4-239-618-02 | SCREW (+PWH, 2X6), STEP TAPPING | | 215 | 4-251-851-01 | GEAR (MAIN TRAY 2) | |
| 206 | 4-251-872-01 | SPRING (LEVER), TORSION | | M761 | A-4713-174-A | MOTOR (81) ASSY (LD/ST MOTOR) | |
| 207 | 4-251-868-01 | BELT (SUB TRAY) | | M762 | A-4713-174-A | MOTOR (81) ASSY (BU U/D MOTOR) | |
| 208 | 4-251-853-01 | PULLEY (BU) | | S771 | 1-478-552-11 | ENCODER, ROTARY (MD) | |
| 209 | 4-251-834-01 | LEVER (MAIN TRAY) | | #5 | 7-685-534-19 | SCREW +BTP 2.6X8 TYPE2 N-S | |
| 210 | 4-251-852-01 | GEAR (MAIN TRAY 3) | | #6 | 7-685-902-21 | SCREW +PTPWH 2.6X8 (TYPE2) | |

3-7. CD MECHANISM SECTION-3 (CDM81A-DVBU27)



| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|------------------------------|--------|----------|--------------|----------------------------------|--------|
| 251 | 4-985-672-01 | SCREW (+PTPWHM2.6), FLOATING | | 264 | 4-251-838-01 | GEAR (STOCKER 3) | |
| 252 | 4-251-873-01 | SPRING (MODE), COMPRESSION | | 265 | 4-251-823-01 | CHASSIS (CDM81) | |
| 253 | 4-251-874-02 | SPRING (SW), TENSION | | 266 | A-4750-232-A | TRANSLATION BOARD, COMPLETE | |
| 254 | 4-251-844-01 | GEAR (SS2) | | 267 | 4-239-618-02 | SCREW (+PWH, 2X6), STEP TAPPING | |
| 255 | 4-251-835-01 | GEAR (STOCKER 1) | | 268 | 4-251-825-01 | CAM (BU) | |
| 256 | 4-251-833-01 | LEVER (SUB TRAY) | | 269 | 4-251-832-01 | LEVER (STOCKER) | |
| 257 | 4-251-843-01 | LEVER (RELEASE) | | 270 | 4-251-861-01 | LEVER (SW) | |
| 258 | 4-251-831-02 | LEVER (MODE) | | 271 | 4-251-839-01 | GEAR (STOCKER 4) | |
| 259 | 4-251-862-01 | SHUTTER (TRAY) | | 272 | 4-251-840-01 | GEAR (SUB TRAY) | |
| 260 | 4-251-845-01 | GEAR (SS3) | | 273 | 4-251-847-01 | GEAR (SS4) | |
| 261 | 4-251-829-02 | TRAY (SUB) | | S781 | 1-478-551-11 | ENCODER, ROTARY (ST U/D ENCODER) | |
| 262 | 4-251-827-01 | CAM (STOCKER) | | #5 | 7-685-534-19 | SCREW +BTP 2.6X8 TYPE2 N-S | |
| 263 | 4-251-836-01 | GEAR (STOCKER 2) | | #6 | 7-685-902-21 | SCREW +PTPWH 2.6X8 (TYPE2) | |

3-8. BASE UNIT SECTION (DVBU27)



| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|------------------|--------------|-------------------------|--------|----------|--------------|--------------------------------|--------|
| 301 | X-4956-103-1 | HOLDER (DBU1) ASSY | | 305 | 1-824-106-12 | CABLE, FLEXIBLE FLAT (24 CORE) | |
| <div>△</div> 302 | A-4713-410-A | OPTICAL PICK-UP (DBU-1) | | 306 | A-4728-690-A | RF BOARD, COMPLETE | |
| 303 | 3-057-023-11 | INSULATOR (RB) | | #5 | 7-685-534-19 | SCREW +BTP 2.6X8 TYPE2 N-S | |
| 304 | 4-981-923-01 | SCREW (M), STEP | | #7 | 7-685-533-19 | SCREW +BTP 2.6X6 TYPE2 N-S | |

| | |
|--|---|
| The components identified by mark <div>△</div> or dotted line with mark <div>△</div> are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque <div>△</div> sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |
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SECTION 4 ELECTRICAL PARTS LIST

AMP**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- CAPACITORS
uF: μ F

- COILS
uH: μ H
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . : μ A. ., uPA. . : μ PA. .,
uPB. . : μ PB. ., uPC. . : μ PC. .,
uPD. . : μ PD. .
- Abbreviation
AUS : Australian model
CND : Canadian model
E41 : 230V AC Area in E model
EA : Saudi Arabia model
KR : Korea model
MX : Mexican model
TW : Taiwan model

When indicating parts by reference number, please include the board name.

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref. No. | Part No. | Description | Remark | | | Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|--|---------|-----|-----|----------|--------------|--------------|---------|-----|------------------|
| | A-1052-860-A | AMP BOARD, COMPLETE (150: MX) | | | | C158 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| | A-1053-123-A | AMP BOARD, COMPLETE (TW, EA, AUS) | | | | C160 | 1-162-923-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| | A-1054-633-A | AMP BOARD, COMPLETE (E41) | | | | | | | | | |
| | A-1062-134-A | AMP BOARD, COMPLETE (250: US, CND) | | | | C161 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V |
| | A-1067-906-A | AMP BOARD, COMPLETE (250: MX) | | | | C162 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V |
| | | | | | | C163 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V |
| | | | | | | C164 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V |
| | A-4752-734-A | AMP BOARD, COMPLETE (150: US, CND, KR) | | | | C165 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V |
| | | ***** | | | | | | | | | |
| | | < CAPACITOR > | | | | | | | | | |
| C101 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V | C166 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V |
| C102 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V | C168 | 1-162-923-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C103 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V | C171 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V |
| C104 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V | C172 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V |
| C105 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V | C173 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V |
| C106 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V | | | | | | |
| C111 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V | C174 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V |
| C112 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V | C175 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V |
| C113 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V | C176 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V |
| C114 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V | C178 | 1-162-923-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C115 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V | C181 | 1-115-185-11 | CERAMIC CHIP | 0.033uF | 10% | 50V |
| C116 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V | | | | | | |
| C131 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C182 | 1-115-185-11 | CERAMIC CHIP | 0.033uF | 10% | 50V |
| C132 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C183 | 1-115-185-11 | CERAMIC CHIP | 0.033uF | 10% | 50V |
| C133 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C184 | 1-115-185-11 | CERAMIC CHIP | 0.033uF | 10% | 50V |
| C134 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C185 | 1-115-185-11 | CERAMIC CHIP | 0.033uF | 10% | 50V |
| C135 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C186 | 1-115-185-11 | CERAMIC CHIP | 0.033uF | 10% | 50V |
| C136 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | | | | | | |
| C138 | 1-162-923-11 | CERAMIC CHIP | 47PF | 5% | 50V | C188 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C141 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C189 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C142 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C190 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C143 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C191 | 1-107-898-11 | ELECT | 2200uF | 20% | 35V |
| C144 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C192 | 1-107-898-11 | ELECT | 2200uF | 20% | 35V |
| C145 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | | | | | | |
| C146 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C193 | 1-107-898-11 | ELECT | 2200uF | 20% | 35V |
| | | | | | | C194 | 1-107-898-11 | ELECT | 2200uF | 20% | 35V |
| | | | | | | C195 | 1-107-898-11 | ELECT | 2200uF | 20% | 35V |
| | | | | | | | | | | | (EXCEPT 250: MX) |
| | | | | | | C196 | 1-110-617-51 | ELECT | 2200uF | 20% | 50V |
| | | | | | | | | | | | (EXCEPT 250: MX) |
| | | | | | | C198 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C148 | 1-162-923-11 | CERAMIC CHIP | 47PF | 5% | 50V | | | | | | |
| C149 | 1-162-923-11 | CERAMIC CHIP | 47PF | 5% | 50V | C199 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C151 | 1-115-185-11 | CERAMIC CHIP | 0.033uF | 10% | 50V | C200 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C152 | 1-115-185-11 | CERAMIC CHIP | 0.033uF | 10% | 50V | C201 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V |
| C153 | 1-115-185-11 | CERAMIC CHIP | 0.033uF | 10% | 50V | C202 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V |
| | | | | | | C203 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V |
| C154 | 1-115-185-11 | CERAMIC CHIP | 0.033uF | 10% | 50V | | | | | | |
| C155 | 1-115-185-11 | CERAMIC CHIP | 0.033uF | 10% | 50V | C204 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V |
| C156 | 1-115-185-11 | CERAMIC CHIP | 0.033uF | 10% | 50V | C205 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V |
| | | | | | | C206 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V |

HCD-BC150/BC250

AMP

| Ref. No. | Part No. | Description | Remark | | | Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|--------------|----------|-----|-----|----------|--------------|--------------|---------|--------|-----|
| C207 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V | C312 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C208 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V | C313 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C209 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V | C314 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C210 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V | C315 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C211 | 1-136-177-00 | FILM | 1uF | 5% | 50V | C316 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C212 | 1-136-177-00 | FILM | 1uF | 5% | 50V | C317 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C213 | 1-136-177-00 | FILM | 1uF | 5% | 50V | C318 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C214 | 1-136-177-00 | FILM | 1uF | 5% | 50V | C319 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C215 | 1-136-177-00 | FILM | 1uF | 5% | 50V | C320 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C216 | 1-136-177-00 | FILM | 1uF | 5% | 50V | C321 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C221 | 1-136-177-00 | FILM | 1uF | 5% | 50V | C322 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C222 | 1-136-177-00 | FILM | 1uF | 5% | 50V | C323 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C223 | 1-136-177-00 | FILM | 1uF | 5% | 50V | C324 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C224 | 1-136-177-00 | FILM | 1uF | 5% | 50V | C325 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C225 | 1-136-177-00 | FILM | 1uF | 5% | 50V | C326 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C226 | 1-136-177-00 | FILM | 1uF | 5% | 50V | C327 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C248 | 1-126-947-11 | ELECT | 47uF | 20% | 35V | C328 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C251 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C329 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C252 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C330 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C253 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C331 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C254 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C332 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C255 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C333 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C256 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C334 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C261 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C335 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C262 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C336 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C263 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C337 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C264 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C350 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V |
| C265 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C351 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C266 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C352 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C271 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V | C353 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C272 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V | C354 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C275 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | C355 | 1-126-933-11 | ELECT | 100uF | 20% | 16V |
| C276 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | C356 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C277 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | C357 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C278 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | C358 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C281 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C359 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C282 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C360 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C283 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C361 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C284 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C362 | 1-104-658-91 | ELECT | 100uF | 20% | 10V |
| C285 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C363 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C286 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C366 | 1-126-934-11 | ELECT | 220uF | 20% | 16V |
| C287 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C367 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C288 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C368 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C289 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C370 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C290 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C371 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C291 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C372 | 1-126-960-11 | ELECT | 1uF | 20% | 50V |
| C292 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C374 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C301 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C375 | 1-126-933-11 | ELECT | 100uF | 20% | 16V |
| C302 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C377 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C303 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C380 | 1-104-662-91 | ELECT | 22uF | 20% | 25V |
| C304 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C381 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C305 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C382 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C306 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C383 | 1-162-915-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C308 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C384 | 1-162-910-11 | CERAMIC CHIP | 5PF | 0.25PF | 50V |
| C309 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C385 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V |
| C310 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C391 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V |
| C311 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C392 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V |
| | | | | | | C393 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V |

| Ref. No. | Part No. | Description | Remark | | | Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|------------------------------------|----------|-----|-----|----------|--------------|----------------|-----------|----|-------|
| C394 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V | JR406 | 1-216-864-11 | SHORT CHIP | 0 | | |
| C395 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V | JR407 | 1-216-864-11 | SHORT CHIP | 0 | | |
| C396 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V | JR408 | 1-216-864-11 | SHORT CHIP | 0 | | |
| C402 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V | JR409 | 1-216-864-11 | SHORT CHIP | 0 | | |
| C403 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V | JR411 | 1-216-864-11 | SHORT CHIP | 0 | | |
| C404 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V | JR412 | 1-216-864-11 | SHORT CHIP | 0 | | |
| C405 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V | | | < COIL > | | | |
| C406 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V | L121 | 1-456-680-11 | INDUCTOR | 10uH | | |
| | | < CONNECTOR > | | | | L122 | 1-456-680-11 | INDUCTOR | 10uH | | |
| * CN300 | 1-564-704-11 | PIN, CONNECTOR (SMALL TYPE) 2P | | | | L123 | 1-456-680-11 | INDUCTOR | 10uH | | |
| CN301 | 1-779-285-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 17P | | | | L124 | 1-456-680-11 | INDUCTOR | 10uH | | |
| CN302 | 1-779-277-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 9P | | | | L125 | 1-456-680-11 | INDUCTOR | 10uH | | |
| CN306 | 1-691-766-21 | PLUG (MICRO CONNECTOR) 4P | | | | L126 | 1-456-680-11 | INDUCTOR | 10uH | | |
| CN307 | 1-691-766-11 | PLUG (MICRO CONNECTOR) 4P | | | | L131 | 1-456-680-11 | INDUCTOR | 10uH | | |
| * CN313 | 1-564-243-11 | PIN, CONNECTOR (3.96mm PITCH) 6P | | | | L132 | 1-456-680-11 | INDUCTOR | 10uH | | |
| | | < DIODE > | | | | L133 | 1-456-680-11 | INDUCTOR | 10uH | | |
| D101 | 6-500-260-01 | DIODE P6SMB39AT3 | | | | L134 | 1-456-680-11 | INDUCTOR | 10uH | | |
| D102 | 6-500-260-01 | DIODE P6SMB39AT3 | | | | L135 | 1-456-680-11 | INDUCTOR | 10uH | | |
| D103 | 6-500-260-01 | DIODE P6SMB39AT3 | | | | L136 | 1-456-680-11 | INDUCTOR | 10uH | | |
| D104 | 6-500-260-01 | DIODE P6SMB39AT3 | | | | L302 | 1-412-939-11 | INDUCTOR | 1uH | | |
| D105 | 6-500-260-01 | DIODE P6SMB39AT3 | | | | | | < TRANSISTOR > | | | |
| D106 | 6-500-260-01 | DIODE P6SMB39AT3 | | | | Q101 | 8-729-602-36 | TRANSISTOR | 2SA1602-F | | |
| D201 | 6-500-260-01 | DIODE P6SMB39AT3 | | | | Q102 | 8-729-602-36 | TRANSISTOR | 2SA1602-F | | |
| D202 | 6-500-260-01 | DIODE P6SMB39AT3 | | | | Q103 | 8-729-602-36 | TRANSISTOR | 2SA1602-F | | |
| D203 | 6-500-260-01 | DIODE P6SMB39AT3 | | | | Q104 | 8-729-602-36 | TRANSISTOR | 2SA1602-F | | |
| D204 | 6-500-260-01 | DIODE P6SMB39AT3 | | | | Q105 | 8-729-602-36 | TRANSISTOR | 2SA1602-F | | |
| D205 | 6-500-260-01 | DIODE P6SMB39AT3 | | | | Q106 | 8-729-602-36 | TRANSISTOR | 2SA1602-F | | |
| D206 | 6-500-260-01 | DIODE P6SMB39AT3 | | | | Q107 | 8-729-602-36 | TRANSISTOR | 2SA1602-F | | |
| D208 | 8-719-421-15 | DIODE MA8027-L | | | | Q108 | 8-729-602-36 | TRANSISTOR | 2SA1602-F | | |
| D303 | 8-719-988-61 | DIODE 1SS355TE-17 | | | | Q109 | 8-729-602-36 | TRANSISTOR | 2SA1602-F | | |
| D304 | 8-719-988-61 | DIODE 1SS355TE-17 | | | | Q110 | 8-729-602-36 | TRANSISTOR | 2SA1602-F | | |
| | | < FERRITE BEAD > | | | | Q111 | 8-729-602-36 | TRANSISTOR | 2SA1602-F | | |
| FB301 | 1-469-760-21 | FERRITE, EMI (SMD) (2012) | | | | Q112 | 8-729-602-36 | TRANSISTOR | 2SA1602-F | | |
| | | < IC > | | | | Q301 | 8-729-034-51 | TRANSISTOR | KTC3875 | | |
| IC101 | 6-704-802-01 | IC CXD9774M | | | | Q303 | 8-729-801-84 | TRANSISTOR | 2SB1013-4 | | |
| IC102 | 6-704-802-01 | IC CXD9774M | | | | Q304 | 8-729-038-68 | TRANSISTOR | KRC103S | | |
| IC103 | 6-704-802-01 | IC CXD9774M | | | | | | < RESISTOR > | | | |
| IC104 | 6-704-802-01 | IC CXD9774M | | | | R108 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| IC105 | 6-704-802-01 | IC CXD9774M | | | | R109 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| IC106 | 6-704-802-01 | IC CXD9774M | | | | R110 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| IC108 | 6-705-979-01 | IC CXD9788AR | | | | R111 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| IC109 | 6-705-979-01 | IC CXD9788AR | | | | R112 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| IC110 | 6-705-979-01 | IC CXD9788AR | | | | R113 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| IC301 | 6-705-720-01 | IC RC4580IDR | | | | R114 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| IC303 | 6-702-300-01 | IC TK11118CSCL-G | | | | R115 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| IC305 | 6-701-189-01 | IC MC74VHC1GU04DFT1 | | | | R116 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| | | < SHORT > | | | | R117 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| JR401 | 1-216-864-11 | SHORT CHIP | 0 | | | R118 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| JR402 | 1-216-864-11 | SHORT CHIP | 0 | | | R119 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| JR403 | 1-216-864-11 | SHORT CHIP | 0 | | | R129 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| JR404 | 1-216-864-11 | SHORT CHIP | 0 | | | R131 | 1-216-864-11 | SHORT CHIP | 0 | | |
| JR405 | 1-216-864-11 | SHORT CHIP | 0 | | | R132 | 1-216-864-11 | SHORT CHIP | 0 | | |
| | | | | | | R133 | 1-216-864-11 | SHORT CHIP | 0 | | |
| | | | | | | R134 | 1-216-864-11 | SHORT CHIP | 0 | | |
| | | | | | | R135 | 1-216-864-11 | SHORT CHIP | 0 | | |

HCD-BC150/BC250

AMP

| Ref. No. | Part No. | Description | Remark | | | Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|-------------|--------|----|-------|----------|--------------|-------------|--------|------|-------|
| R136 | 1-216-864-11 | SHORT CHIP | 0 | | | R243 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R139 | 1-216-864-11 | SHORT CHIP | 0 | | | R244 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| | | | | | | R245 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R141 | 1-216-864-11 | SHORT CHIP | 0 | | | R246 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R142 | 1-216-864-11 | SHORT CHIP | 0 | | | R300 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R143 | 1-216-864-11 | SHORT CHIP | 0 | | | | | | | | |
| R144 | 1-216-864-11 | SHORT CHIP | 0 | | | R302 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R145 | 1-216-864-11 | SHORT CHIP | 0 | | | R303 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| | | | | | | R304 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R146 | 1-216-864-11 | SHORT CHIP | 0 | | | R305 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R151 | 1-216-864-11 | SHORT CHIP | 0 | | | R306 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R152 | 1-216-864-11 | SHORT CHIP | 0 | | | | | | | | |
| R153 | 1-216-864-11 | SHORT CHIP | 0 | | | R308 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R154 | 1-216-864-11 | SHORT CHIP | 0 | | | R309 | 1-216-864-11 | SHORT CHIP | 0 | | |
| | | | | | | R310 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R155 | 1-216-864-11 | SHORT CHIP | 0 | | | R311 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R156 | 1-216-864-11 | SHORT CHIP | 0 | | | R312 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R161 | 1-216-864-11 | SHORT CHIP | 0 | | | | | | | | |
| R162 | 1-216-864-11 | SHORT CHIP | 0 | | | R313 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R163 | 1-216-864-11 | SHORT CHIP | 0 | | | R314 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| | | | | | | R315 | 1-216-822-11 | METAL CHIP | 1.2K | 5% | 1/10W |
| R164 | 1-216-864-11 | SHORT CHIP | 0 | | | R316 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R165 | 1-216-864-11 | SHORT CHIP | 0 | | | R317 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R166 | 1-216-864-11 | SHORT CHIP | 0 | | | | | | | | |
| R171 | 1-216-864-11 | SHORT CHIP | 0 | | | R318 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R172 | 1-216-864-11 | SHORT CHIP | 0 | | | R319 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| | | | | | | R320 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R173 | 1-216-864-11 | SHORT CHIP | 0 | | | R321 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R174 | 1-216-864-11 | SHORT CHIP | 0 | | | R322 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R175 | 1-216-864-11 | SHORT CHIP | 0 | | | | | | | | |
| R176 | 1-216-864-11 | SHORT CHIP | 0 | | | R323 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R191 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | R324 | 1-216-864-11 | SHORT CHIP | 0 | | |
| | | | | | | R325 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R192 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | R326 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R193 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | R327 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R194 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | | | | | | |
| R195 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | R328 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R196 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | R329 | 1-216-864-11 | SHORT CHIP | 0 | | |
| | | | | | | R330 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R201 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | R331 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R202 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | R332 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R203 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | | | | | | |
| R204 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | R333 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R205 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | R334 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| | | | | | | R335 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R206 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | R336 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R211 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | R337 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R212 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | | | | | | |
| R213 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | R338 | 1-218-725-11 | METAL CHIP | 24K | 0.5% | 1/10W |
| R214 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | R339 | 1-218-725-11 | METAL CHIP | 24K | 0.5% | 1/10W |
| | | | | | | R340 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R215 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | R341 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R216 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | R342 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R221 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | | | | | | |
| R222 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | R343 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R223 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | R344 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| | | | | | | R345 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R224 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | R346 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R225 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | R347 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R226 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | | | | | | |
| R229 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R348 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R231 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R349 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| | | | | | | R350 | 1-216-826-11 | METAL CHIP | 2.7K | 5% | 1/10W |
| R233 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R351 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R235 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R361 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R237 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | | | | | | |
| R241 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R362 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R242 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R363 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| | | | | | | R364 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |

AMP

AMP RETAINER

DMB07

| Ref. No. | Part No. | Description | | | Remark |
|----------|--------------|-------------|------|----|--------|
| R365 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R366 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R371 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R372 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R373 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R374 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R375 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R376 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R377 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R378 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R379 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R380 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R381 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R382 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R383 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R384 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R393 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R394 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R395 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R396 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R400 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R401 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R402 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R403 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R404 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R405 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R406 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R407 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R408 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R409 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R410 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R411 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R412 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R425 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R426 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R427 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R428 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R429 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R430 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R431 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R450 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R451 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R452 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R453 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R456 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R457 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R458 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R459 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R460 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R461 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R462 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R463 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R464 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R481 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R482 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R483 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R484 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remark |
|---|--------------|---------------------|--------|-----|--------|
| R487 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R488 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R489 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R490 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R491 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R492 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R493 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R494 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R495 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R496 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R497 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| < VIBRATOR > | | | | | |
| X450 | 1-795-660-21 | QUARTZ CRYSTAL UNIT | | | |
| ***** | | | | | |
| AMP RETAINER BOARD | | | | | |
| ***** | | | | | |
| ***** | | | | | |
| A-1052-868-A DMB07 BOARD, COMPLETE (150: MX) | | | | | |
| A-1053-135-A DMB07 BOARD, COMPLETE (TW, EA, KR, AUS) | | | | | |
| A-1054-641-A DMB07 BOARD, COMPLETE (E41) | | | | | |
| A-4752-761-A DMB07 BOARD, COMPLETE (150: US, CND/250) | | | | | |
| ***** | | | | | |
| < CAPACITOR > | | | | | |
| C101 | 1-126-246-11 | ELECT CHIP | 220uF | 20% | 4V |
| C151 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C201 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C202 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C203 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C204 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C205 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C213 | 1-126-209-11 | ELECT CHIP | 100uF | 20% | 4V |
| C214 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C215 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C216 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C218 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C220 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C226 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C227 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C229 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C230 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C231 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C232 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C233 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C234 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C235 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C236 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C237 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C238 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C239 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C240 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C241 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C242 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C243 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |

HCD-BC150/BC250

DMB07

| Ref. No. | Part No. | Description | | | Remark | Ref. No. | Part No. | Description | | | Remark |
|----------|--------------|--------------|---------|-----|--------|----------|--------------|--------------|----------|-----|--------|
| C244 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C504 | 1-127-772-81 | CERAMIC CHIP | 33000PF | 10% | 10V |
| C245 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C506 | 1-164-934-11 | CERAMIC CHIP | 330PF | 10% | 50V |
| C246 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | | | | | | |
| C247 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C507 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V |
| C248 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C508 | 1-164-937-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| | | | | | | C509 | 1-164-934-11 | CERAMIC CHIP | 330PF | 10% | 50V |
| C249 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C510 | 1-164-937-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C250 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C511 | 1-164-933-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C251 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | | | | | | |
| C252 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C512 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C253 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C513 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V |
| | | | | | | C514 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C254 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C515 | 1-164-933-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C255 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V | C516 | 1-164-939-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C256 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | | | | | | |
| C257 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C517 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V |
| C258 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V | C518 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | | | | | | C519 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C259 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C521 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C260 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C522 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C261 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | | | | | | |
| C262 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C523 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C263 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C524 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | | | | | | C525 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C264 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C526 | 1-126-395-11 | ELECT CHIP | 22uF | 20% | 16V |
| C265 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V | C527 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C266 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | | | | | | |
| C267 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C528 | 1-126-395-11 | ELECT CHIP | 22uF | 20% | 16V |
| C268 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C529 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | | | | | | C530 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V |
| C269 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C531 | 1-119-923-11 | CERAMIC CHIP | 0.047uF | 10% | 10V |
| C270 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C532 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V |
| C271 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | | | | | | |
| C272 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C533 | 1-164-939-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C273 | 1-164-858-11 | CERAMIC CHIP | 22PF | 5% | 50V | C534 | 1-107-819-11 | CERAMIC CHIP | 0.022uF | 10% | 16V |
| | | | | | | C535 | 1-164-939-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C274 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C540 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V |
| C275 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C543 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C276 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | | | | | | |
| C277 | 1-164-874-11 | CERAMIC CHIP | 100PF | 5% | 50V | C544 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C278 | 1-164-874-11 | CERAMIC CHIP | 100PF | 5% | 50V | C545 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V |
| | | | | | | C547 | 1-107-725-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C279 | 1-164-874-11 | CERAMIC CHIP | 100PF | 5% | 50V | C548 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C280 | 1-164-874-11 | CERAMIC CHIP | 100PF | 5% | 50V | C551 | 1-125-891-11 | CERAMIC CHIP | 0.47uF | 10% | 10V |
| C281 | 1-164-874-11 | CERAMIC CHIP | 100PF | 5% | 50V | | | | | | |
| C282 | 1-164-874-11 | CERAMIC CHIP | 100PF | 5% | 50V | C552 | 1-216-295-91 | SHORT CHIP | 0 | | |
| C283 | 1-164-874-11 | CERAMIC CHIP | 100PF | 5% | 50V | C553 | 1-164-940-11 | CERAMIC CHIP | 0.0033uF | 10% | 16V |
| | | | | | | C556 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V |
| C284 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C558 | 1-126-209-11 | ELECT CHIP | 100uF | 20% | 4V |
| C286 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C559 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C287 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | | | | | | |
| C290 | 1-164-874-11 | CERAMIC CHIP | 100PF | 5% | 50V | C560 | 1-164-938-11 | CERAMIC CHIP | 0.0015uF | 10% | 50V |
| C291 | 1-164-874-11 | CERAMIC CHIP | 100PF | 5% | 50V | C561 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| | | | | | | C563 | 1-164-874-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C352 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V | C565 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C355 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V | C567 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C356 | 1-126-193-11 | ELECT CHIP | 1uF | 20% | 50V | | | | | | |
| C357 | 1-126-193-11 | ELECT CHIP | 1uF | 20% | 50V | C568 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V |
| C363 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V | C569 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| | | | | | | C570 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V |
| C364 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V | C573 | 1-164-874-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C365 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V | C588 | 1-164-939-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C366 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V | | | | | | |
| C367 | 1-164-935-11 | CERAMIC CHIP | 470PF | 10% | 50V | C589 | 1-164-939-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C368 | 1-164-935-11 | CERAMIC CHIP | 470PF | 10% | 50V | C590 | 1-164-939-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| | | | | | | C592 | 1-124-779-00 | ELECT CHIP | 10uF | 20% | 16V |
| C501 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C701 | 1-126-209-11 | ELECT CHIP | 100uF | 20% | 4V |
| C502 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C702 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V |
| C503 | 1-127-772-81 | CERAMIC CHIP | 33000PF | 10% | 10V | | | | | | |

| Ref. No. | Part No. | Description | | | Remark | Ref. No. | Part No. | Description | | | Remark |
|----------|--------------|--------------|----------|-----|--------|----------|--------------|---------------------------------|---------|-------|--------|
| C703 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C902 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C705 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C903 | 1-126-209-11 | ELECT CHIP | 100uF | 20% | 4V |
| C706 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | | | | | | |
| C708 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C904 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C709 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C905 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | | | | | | C906 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C711 | 1-119-923-11 | CERAMIC CHIP | 0.047uF | 10% | 10V | C907 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C712 | 1-164-874-11 | CERAMIC CHIP | 100PF | 5% | 50V | C908 | 1-164-874-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C713 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | | | | | | |
| C714 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C909 | 1-164-874-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C715 | 1-164-938-11 | CERAMIC CHIP | 0.0015uF | 10% | 50V | C910 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | | | | | | C913 | 1-127-772-81 | CERAMIC CHIP | 33000PF | 10% | 10V |
| C716 | 1-125-891-11 | CERAMIC CHIP | 0.47uF | 10% | 10V | C914 | 1-164-849-11 | CERAMIC CHIP | 9PF | 0.5PF | 50V |
| C717 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C915 | 1-164-847-11 | CERAMIC CHIP | 7PF | 0.5PF | 50V |
| C718 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | | | | | | |
| C720 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C916 | 1-126-209-11 | ELECT CHIP | 100uF | 20% | 4V |
| C721 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V | C917 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | | | | | | C918 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C722 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C924 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C723 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C925 | 1-126-395-11 | ELECT CHIP | 22uF | 20% | 16V |
| C724 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | | | | | | |
| C725 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C926 | 1-126-246-11 | ELECT CHIP | 220uF | 20% | 4V |
| C726 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C927 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | | | | | | C928 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V |
| C727 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V | | | < CONNECTOR > | | | |
| C728 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | * CN101 | 1-784-365-31 | CONNECTOR, FFC/FPC 5P | | | |
| C729 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V | CN102 | 1-815-954-21 | PIN, CONNECTOR (PC BOARD) 13P | | | |
| C730 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | CN105 | 1-784-374-31 | CONNECTOR, FFC/FPC 15P | | | |
| C733 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V | CN106 | 1-784-368-31 | CONNECTOR, FFC/FPC 9P | | | |
| | | | | | | * CN107 | 1-784-365-31 | CONNECTOR, FFC/FPC 5P | | | |
| C734 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V | | | | | | |
| C740 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | CN501 | 1-778-957-11 | CONNECTOR, FFC/FPC 29P | | | |
| C741 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | CN901 | 1-764-177-11 | PIN, CONNECTOR (SMD) (1.5mm) 7P | | | |
| C742 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | | | < DIODE > | | | |
| C743 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | D202 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| | | | | | | D500 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| C744 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | D901 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| C745 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | | | < FERRITE BEAD > | | | |
| C752 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | FB105 | 1-469-324-21 | FERRITE, EMI (SMD) (2012) | | | |
| C760 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | FB902 | 1-500-284-21 | INDUCTOR, FERRITE BEAD | | | |
| C761 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | FB903 | 1-500-284-21 | INDUCTOR, FERRITE BEAD | | | |
| | | | | | | | | < FILTER > | | | |
| C762 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | FL101 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| C763 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | FL203 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| C764 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | FL204 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| C765 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | FL205 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| C766 | 1-164-874-11 | CERAMIC CHIP | 100PF | 5% | 50V | FL206 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| | | | | | | | | | | | |
| C767 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | FL352 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| C768 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | FL501 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| C769 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | FL502 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| C770 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | FL701 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| C771 | 1-119-923-11 | CERAMIC CHIP | 0.047uF | 10% | 10V | FL702 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| | | | | | | | | | | | |
| C772 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | FL703 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| C773 | 1-125-891-11 | CERAMIC CHIP | 0.47uF | 10% | 10V | FL705 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| C774 | 1-164-941-11 | CERAMIC CHIP | 0.0047uF | 10% | 16V | FL706 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| C775 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | FL901 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| C776 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | FL903 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| | | | | | | | | | | | |
| C777 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | FL908 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| C778 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | | | | | | |
| C779 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V | | | | | | |
| C780 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V | | | | | | |
| C781 | 1-126-246-11 | ELECT CHIP | 220uF | 20% | 4V | | | | | | |
| | | | | | | | | | | | |
| C782 | 1-164-938-11 | CERAMIC CHIP | 0.0015uF | 10% | 50V | | | | | | |
| C783 | 1-164-938-11 | CERAMIC CHIP | 0.0015uF | 10% | 50V | | | | | | |
| C901 | 1-126-209-11 | ELECT CHIP | 100uF | 20% | 4V | | | | | | |

HCD-BC150/BC250

DMB07

| Ref. No. | Part No. | Description | Remark |
|----------------|--------------|--------------------------|--------|
| < IC > | | | |
| IC111 | 6-550-554-01 | TRANSISTOR UM6K1NL02TN | |
| IC203 | 6-704-069-01 | IC MT48LC4M32B2P-6-Y15W | |
| * IC204 | 6-703-671-01 | IC BR9040F-WE2 | |
| IC205 | 6-804-531-01 | IC MR27V3202F-12STP04B9 | |
| IC207 | 6-704-630-01 | IC ZIVA5X-C2F | |
| | | | |
| IC211 | 6-700-398-01 | IC uPC2918T-E1 | |
| IC231 | 8-759-549-21 | IC SN74LV573APWR | |
| IC232 | 8-759-549-21 | IC SN74LV573APWR | |
| IC233 | 8-759-549-21 | IC SN74LV573APWR | |
| IC256 | 8-759-549-21 | IC SN74LV573APWR | |
| | | | |
| IC258 | 8-759-549-21 | IC SN74LV573APWR | |
| IC259 | 8-759-549-21 | IC SN74LV573APWR | |
| IC352 | 8-759-560-56 | IC PCM1800E/2K | |
| IC501 | 6-702-157-01 | IC FAN8035L | |
| IC502 | 8-759-583-47 | IC uPC2933T-E2 | |
| | | | |
| IC503 | 8-759-058-43 | IC NJM3404AV | |
| IC509 | 8-752-408-73 | IC CXD3068Q | |
| IC701 | 6-703-552-01 | IC TMC57929PGF-RDP | |
| IC703 | 8-759-058-43 | IC NJM3404AV | |
| IC706 | 6-705-876-01 | IC M51V18165M-60TS-KR1 | |
| | | | |
| IC901 | 8-753-224-50 | IC CXP973064-243R | |
| IC902 | 8-759-649-48 | IC SN74AHC1G32DCKR | |
| IC903 | 6-704-004-01 | IC BR24L16F-WE2 | |
| IC904 | 6-704-753-01 | IC SN74AHC2G74HDCUR | |
| IC906 | 6-700-407-01 | IC SM8707GV-G-E2 | |
| | | | |
| IC907 | 8-759-583-47 | IC uPC2933T-E2 | |
| < SHORT > | | | |
| JW801 | 1-218-990-11 | SHORT CHIP 0 | |
| JW802 | 1-218-990-11 | SHORT CHIP 0 | |
| JW803 | 1-218-990-11 | SHORT CHIP 0 | |
| JW804 | 1-218-990-11 | SHORT CHIP 0 | |
| JW805 | 1-218-990-11 | SHORT CHIP 0 | |
| JW806 | 1-218-990-11 | SHORT CHIP 0 | |
| < COIL > | | | |
| L103 | 1-216-295-91 | SHORT CHIP 0 | |
| L501 | 1-216-295-91 | SHORT CHIP 0 | |
| L704 | 1-412-031-11 | INDUCTOR 47uH | |
| L901 | 1-412-031-11 | INDUCTOR 47uH | |
| < TRANSISTOR > | | | |
| Q201 | 8-729-929-26 | TRANSISTOR DTC114TE | |
| Q202 | 8-729-929-26 | TRANSISTOR DTC114TE | |
| Q901 | 8-729-929-26 | TRANSISTOR DTC114TE | |
| < RESISTOR > | | | |
| R10 | 1-216-801-11 | METAL CHIP 22 5% 1/10W | |
| R11 | 1-216-801-11 | METAL CHIP 22 5% 1/10W | |
| R12 | 1-216-801-11 | METAL CHIP 22 5% 1/10W | |
| R13 | 1-216-801-11 | METAL CHIP 22 5% 1/10W | |
| R14 | 1-216-801-11 | METAL CHIP 22 5% 1/10W | |
| | | | |
| R15 | 1-216-801-11 | METAL CHIP 22 5% 1/10W | |
| R197 | 1-216-829-11 | METAL CHIP 4.7K 5% 1/10W | |
| R198 | 1-216-829-11 | METAL CHIP 4.7K 5% 1/10W | |
| R201 | 1-216-864-11 | SHORT CHIP 0 | |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|-----------------------------|--------|
| R202 | 1-216-841-11 | METAL CHIP 47K 5% 1/10W | |
| | | | |
| R213 | 1-218-939-11 | RES-CHIP 68 5% 1/16W | |
| R215 | 1-216-864-11 | SHORT CHIP 0 | |
| R217 | 1-216-864-11 | SHORT CHIP 0 | |
| R220 | 1-216-864-11 | SHORT CHIP 0 | |
| R221 | 1-216-864-11 | SHORT CHIP 0 | |
| | | | |
| R222 | 1-216-864-11 | SHORT CHIP 0 | |
| R225 | 1-543-958-22 | BEAD, FERRITE (CHIP) (1608) | |
| R226 | 1-216-864-11 | SHORT CHIP 0 | |
| R227 | 1-216-829-11 | METAL CHIP 4.7K 5% 1/10W | |
| R228 | 1-216-864-11 | SHORT CHIP 0 | |
| | | | |
| R230 | 1-216-803-11 | METAL CHIP 33 5% 1/10W | |
| R231 | 1-216-803-11 | METAL CHIP 33 5% 1/10W | |
| R232 | 1-216-803-11 | METAL CHIP 33 5% 1/10W | |
| R234 | 1-216-833-11 | METAL CHIP 10K 5% 1/10W | |
| R240 | 1-216-841-11 | METAL CHIP 47K 5% 1/10W | |
| | | | |
| R241 | 1-216-864-11 | SHORT CHIP 0 | |
| R244 | 1-216-821-11 | METAL CHIP 1K 5% 1/10W | |
| R245 | 1-216-829-11 | METAL CHIP 4.7K 5% 1/10W | |
| R246 | 1-216-833-11 | METAL CHIP 10K 5% 1/10W | |
| R247 | 1-216-821-11 | METAL CHIP 1K 5% 1/10W | |
| | | | |
| R248 | 1-216-829-11 | METAL CHIP 4.7K 5% 1/10W | |
| R250 | 1-216-864-11 | SHORT CHIP 0 | |
| R251 | 1-216-864-11 | SHORT CHIP 0 | |
| R253 | 1-216-829-11 | METAL CHIP 4.7K 5% 1/10W | |
| R254 | 1-216-829-11 | METAL CHIP 4.7K 5% 1/10W | |
| | | | |
| R255 | 1-216-864-11 | SHORT CHIP 0 | |
| R257 | 1-216-829-11 | METAL CHIP 4.7K 5% 1/10W | |
| R259 | 1-216-829-11 | METAL CHIP 4.7K 5% 1/10W | |
| R260 | 1-216-829-11 | METAL CHIP 4.7K 5% 1/10W | |
| R261 | 1-216-829-11 | METAL CHIP 4.7K 5% 1/10W | |
| | | | |
| R263 | 1-218-285-11 | METAL CHIP 75 5% 1/10W | |
| R264 | 1-218-285-11 | METAL CHIP 75 5% 1/10W | |
| R265 | 1-218-285-11 | METAL CHIP 75 5% 1/10W | |
| R266 | 1-218-285-11 | METAL CHIP 75 5% 1/10W | |
| R267 | 1-218-285-11 | METAL CHIP 75 5% 1/10W | |
| | | | |
| R268 | 1-543-958-22 | BEAD, FERRITE (CHIP) (1608) | |
| R269 | 1-216-864-11 | SHORT CHIP 0 | |
| R270 | 1-216-864-11 | SHORT CHIP 0 | |
| R271 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | |
| R272 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | |
| | | | |
| R273 | 1-500-284-21 | INDUCTOR, FERRITE BEAD | |
| R274 | 1-500-284-21 | INDUCTOR, FERRITE BEAD | |
| R275 | 1-500-284-21 | INDUCTOR, FERRITE BEAD | |
| R276 | 1-500-284-21 | INDUCTOR, FERRITE BEAD | |
| R277 | 1-500-284-21 | INDUCTOR, FERRITE BEAD | |
| | | | |
| R278 | 1-218-285-11 | METAL CHIP 75 5% 1/10W | |
| R279 | 1-218-285-11 | METAL CHIP 75 5% 1/10W | |
| R280 | 1-218-285-11 | METAL CHIP 75 5% 1/10W | |
| R281 | 1-218-285-11 | METAL CHIP 75 5% 1/10W | |
| R282 | 1-218-285-11 | METAL CHIP 75 5% 1/10W | |
| | | | |
| R283 | 1-218-847-11 | METAL CHIP 1K 0.5% 1/10W | |
| R284 | 1-218-829-11 | METAL CHIP 180 0.5% 1/10W | |
| R290 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | |
| R291 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | |
| R292 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | |

| Ref. No. | Part No. | Description | Remark | | | | Ref. No. | Part No. | Description | Remark | | | |
|----------|--------------|-------------|--------|----|-------|--|----------|--------------|-------------|--------|------|-------|--|
| R293 | 1-216-864-11 | SHORT CHIP | 0 | | | | R576 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R294 | 1-216-864-11 | SHORT CHIP | 0 | | | | R579 | 1-216-832-11 | METAL CHIP | 8.2K | 5% | 1/10W | |
| R296 | 1-216-864-11 | SHORT CHIP | 0 | | | | | | | | | | |
| R299 | 1-249-416-11 | CARBON | 820 | 5% | 1/4W | | R580 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W | |
| R301 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | | R581 | 1-216-834-11 | METAL CHIP | 12K | 5% | 1/10W | |
| | | | | | | | R583 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R327 | 1-216-864-11 | SHORT CHIP | 0 | | | | R584 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W | |
| R328 | 1-216-864-11 | SHORT CHIP | 0 | | | | R586 | 1-218-747-11 | METAL CHIP | 200K | 0.5% | 1/10W | |
| R329 | 1-216-864-11 | SHORT CHIP | 0 | | | | | | | | | | |
| R335 | 1-216-864-11 | SHORT CHIP | 0 | | | | R587 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R352 | 1-216-864-11 | SHORT CHIP | 0 | | | | R588 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| | | | | | | | R589 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R353 | 1-216-864-11 | SHORT CHIP | 0 | | | | R591 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R362 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | | R593 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | |
| R503 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | | | | | | | | |
| R504 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | | R599 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | |
| R505 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | | R601 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| | | | | | | | R694 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R506 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | | R698 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R510 | 1-216-847-11 | METAL CHIP | 150K | 5% | 1/10W | | R699 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R511 | 1-216-847-11 | METAL CHIP | 150K | 5% | 1/10W | | | | | | | | |
| R512 | 1-216-842-11 | METAL CHIP | 56K | 5% | 1/10W | | R700 | 1-216-832-11 | METAL CHIP | 8.2K | 5% | 1/10W | |
| R513 | 1-216-842-11 | METAL CHIP | 56K | 5% | 1/10W | | R707 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | |
| | | | | | | | R708 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W | |
| R514 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | | R709 | 1-216-847-11 | METAL CHIP | 150K | 5% | 1/10W | |
| R515 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | | R710 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R516 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W | | | | | | | | |
| R517 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W | | R711 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R519 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | | R712 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| | | | | | | | R713 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R520 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | | R714 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R521 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | | R715 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R522 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W | | | | | | | | |
| R523 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | | R716 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | |
| R524 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | | R717 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | |
| | | | | | | | R718 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R525 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | | R719 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | |
| R527 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W | | R720 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | |
| R529 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W | | | | | | | | |
| R530 | 1-216-842-11 | METAL CHIP | 56K | 5% | 1/10W | | R721 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W | |
| R533 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W | | R724 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | |
| | | | | | | | R725 | 1-216-824-11 | METAL CHIP | 1.8K | 5% | 1/10W | |
| R534 | 1-216-842-11 | METAL CHIP | 56K | 5% | 1/10W | | R726 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | |
| R536 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | | R727 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W | |
| R537 | 1-216-843-11 | METAL CHIP | 68K | 5% | 1/10W | | | | | | | | |
| R545 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | | R728 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R548 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | | R730 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W | |
| | | | | | | | R731 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W | |
| R550 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | | R732 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R551 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | | R733 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R552 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | | | | | | | | |
| R555 | 1-216-864-11 | SHORT CHIP | 0 | | | | R734 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R558 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | | R735 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| | | | | | | | R736 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R559 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | | R737 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R560 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | | R738 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R561 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | | | | | | | | |
| R562 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | | R741 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W | |
| R563 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | | R742 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W | |
| | | | | | | | R743 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W | |
| R564 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | | R744 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W | |
| R565 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | | R745 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | |
| R566 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | | | | | | | | |
| R567 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W | | R746 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | |
| R568 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W | | R747 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W | |
| | | | | | | | R748 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W | |
| R571 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W | | R750 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R572 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W | | R751 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R573 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | | | | | | | | |

HCD-BC150/BC250

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| DMB07 | ENCODER | FL |
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| Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|-------------|--------|----|-------|
| R758 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R760 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R762 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R763 | 1-216-832-11 | METAL CHIP | 8.2K | 5% | 1/10W |
| R764 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| | | | | | |
| R765 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R767 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R769 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R776 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R777 | 1-216-864-11 | SHORT CHIP | 0 | | |
| | | | | | |
| R778 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R785 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R786 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R787 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R788 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| | | | | | |
| R789 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R799 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R805 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R901 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R902 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| | | | | | |
| R904 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R905 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R906 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R907 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R908 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| | | | | | |
| R911 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R912 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R913 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R915 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R916 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| | | | | | |
| R917 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R918 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R920 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R921 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R922 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| | | | | | |
| R923 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R925 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R926 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R927 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R928 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| | | | | | |
| R929 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R930 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R931 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R932 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R933 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| | | | | | |
| R935 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R936 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R939 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R940 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R942 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| | | | | | |
| R943 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R958 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R962 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R964 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R970 | 1-216-864-11 | SHORT CHIP | 0 | | |
| | | | | | |
| R974 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R975 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R978 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |

| Ref. No. | Part No. | Description | Remark | | |
|---------------------------|--------------|-----------------------------|----------|-----|-------|
| R984 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R988 | 1-216-864-11 | SHORT CHIP | 0 | | |
| | | | | | |
| R990 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R994 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R995 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R996 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R997 | 1-216-864-11 | SHORT CHIP | 0 | | |
| | | | | | |
| R998 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1000 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R9980 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R9981 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R9982 | 1-216-864-11 | SHORT CHIP | 0 | | |
| | | | | | |
| R9983 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R9984 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R9985 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R9998 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R9999 | 1-216-864-11 | SHORT CHIP | 0 | | |
| | | | | | |
| < VIBRATOR > | | | | | |
| X901 | 1-781-945-21 | VIBRATOR, CERAMIC (20MHz) | | | |
| X902 | 1-795-630-11 | VIBRATOR, CRYSTAL (27MHz) | | | |
| ***** | | | | | |
| | | | | | |
| ENCODER BOARD | | | | | |
| ***** | | | | | |
| ***** | | | | | |
| | | | | | |
| FL BOARD | | | | | |
| ***** | | | | | |
| | | | | | |
| < CAPACITOR > | | | | | |
| C839 | 1-162-974-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C840 | 1-126-795-11 | ELECT | 10uF | 20% | 50V |
| C841 | 1-164-360-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C842 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C843 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| | | | | | |
| C845 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C846 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V |
| C848 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C849 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C850 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| | | | | | |
| C851 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C852 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C853 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C854 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C855 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| | | | | | |
| C856 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C857 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C858 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| | | | | | |
| < CONNECTOR > | | | | | |
| CN803 | 1-568-828-11 | CONNECTOR, FFC 9P | | | |
| | | | | | |
| < FLUORESCENT INDICATOR > | | | | | |
| FL801 | 1-518-968-11 | INDICATOR TUBE, FLUORESCENT | | | |

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H/P

IO

| Ref. No. | Part No. | Description | Remark | | |
|------------------|--------------|---------------------------------|----------|-----|-------|
| < IC > | | | | | |
| IC803 | 8-759-643-83 | IC uPD16315GB-3BS | | | |
| < TRANSISTOR > | | | | | |
| Q814 | 8-729-034-51 | TRANSISTOR | KTC3875 | | |
| Q815 | 8-729-034-51 | TRANSISTOR | KTC3875 | | |
| < RESISTOR > | | | | | |
| R853 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R854 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R858 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R860 | 1-216-844-11 | METAL CHIP | 82K | 5% | 1/10W |
| R862 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R863 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R868 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R872 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R874 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R875 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| ***** | | | | | |
| | 1-861-263-11 | H/P BOARD | ***** | | |
| < CAPACITOR > | | | | | |
| C800 | 1-164-230-11 | CERAMIC CHIP | 220PF | 5% | 50V |
| C801 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C802 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C803 | 1-164-360-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C804 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V |
| C806 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V |
| < CONNECTOR > | | | | | |
| CN804 | 1-785-331-11 | PIN, CONNECTOR (LIGHT ANGLE) 5P | | | |
| < DIODE > | | | | | |
| D800 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D801 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| < FERRITE BEAD > | | | | | |
| FB800 | 1-500-284-21 | INDUCTOR, FERRITE BEAD | | | |
| FB802 | 1-469-144-21 | FERRITE, EMI (SMD) (2012) | | | |
| FB803 | 1-469-144-21 | FERRITE, EMI (SMD) (2012) | | | |
| FB805 | 1-469-144-21 | FERRITE, EMI (SMD) (2012) | | | |
| < JACK > | | | | | |
| J800 | 1-566-891-21 | JACK (PHONES) | | | |
| < COIL > | | | | | |
| L800 | 1-410-387-11 | INDUCTOR | 33uH | | |
| L801 | 1-410-387-11 | INDUCTOR | 33uH | | |
| L802 | 1-469-144-21 | FERRITE, EMI (SMD) (2012) | | | |
| L803 | 1-469-144-21 | FERRITE, EMI (SMD) (2012) | | | |
| < TRANSISTOR > | | | | | |
| Q800 | 8-729-920-31 | TRANSISTOR | DTC343TK | | |
| Q801 | 8-729-920-31 | TRANSISTOR | DTC343TK | | |
| Q803 | 8-729-920-31 | TRANSISTOR | DTC343TK | | |

| Ref. No. | Part No. | Description | Remark | | |
|---------------|--------------|---------------------------------|----------|-----|-------|
| Q804 | 8-729-920-31 | TRANSISTOR | DTC343TK | | |
| < RESISTOR > | | | | | |
| R800 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R801 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R802 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R803 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R805 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R807 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| ***** | | | | | |
| | A-4752-746-A | IO BOARD, COMPLETE (EXCEPT AUS) | | | |
| | A-1053-130-A | IO BOARD, COMPLETE (AUS) | | | |
| ***** | | | | | |
| < CAPACITOR > | | | | | |
| C202 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C206 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C207 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C208 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C211 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C213 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C214 | 1-104-662-91 | ELECT | 22uF | 20% | 25V |
| C215 | 1-104-662-91 | ELECT | 22uF | 20% | 25V |
| C216 | 1-104-662-91 | ELECT | 22uF | 20% | 25V |
| C217 | 1-104-662-91 | ELECT | 22uF | 20% | 25V |
| C222 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C223 | 1-126-935-11 | ELECT | 470uF | 20% | 16V |
| C227 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C228 | 1-126-916-11 | ELECT | 1000uF | 20% | 6.3V |
| C229 | 1-126-916-11 | ELECT | 1000uF | 20% | 6.3V |
| C230 | 1-126-916-11 | ELECT | 1000uF | 20% | 6.3V |
| C231 | 1-126-916-11 | ELECT | 1000uF | 20% | 6.3V |
| C232 | 1-126-916-11 | ELECT | 1000uF | 20% | 6.3V |
| C233 | 1-104-662-91 | ELECT | 22uF | 20% | 25V |
| C235 | 1-104-662-91 | ELECT | 22uF | 20% | 25V |
| C238 | 1-104-662-91 | ELECT | 22uF | 20% | 25V |
| C239 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C240 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C241 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C242 | 1-126-935-11 | ELECT | 470uF | 20% | 16V |
| C243 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C244 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C245 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C246 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C247 | 1-126-960-11 | ELECT | 1uF | 20% | 50V |
| C248 | 1-126-960-11 | ELECT | 1uF | 20% | 50V |
| C249 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C250 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C251 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C252 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C256 | 1-104-662-91 | ELECT | 22uF | 20% | 25V |
| C257 | 1-104-662-91 | ELECT | 22uF | 20% | 25V |
| C259 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C263 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C266 | 1-104-662-91 | ELECT | 22uF | 20% | 25V |
| C267 | 1-162-967-11 | CERAMIC CHIP | 0.0033uF | 10% | 50V |
| C268 | 1-162-967-11 | CERAMIC CHIP | 0.0033uF | 10% | 50V |

HCD-BC150/BC250

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| Ref. No. | Part No. | Description | | | | Remark |
|----------------|--------------|--|---------|-----|-------|--------|
| C269 | 1-164-245-11 | CERAMIC CHIP | 0.015uF | 10% | 25V | |
| C271 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V | |
| C277 | 1-126-934-11 | ELECT | 220uF | 20% | 16V | |
| C278 | 1-104-662-91 | ELECT | 22uF | 20% | 25V | |
| C279 | 1-104-662-91 | ELECT | 22uF | 20% | 25V | |
| C280 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | |
| C281 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V | |
| C282 | 1-164-245-11 | CERAMIC CHIP | 0.015uF | 10% | 25V | |
| C284 | 1-104-662-91 | ELECT | 22uF | 20% | 25V | |
| C288 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V | |
| < CONNECTOR > | | | | | | |
| CN200 | 1-568-830-11 | CONNECTOR, FFC 11P | | | | |
| CN201 | 1-779-285-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 17P | | | | |
| CN202 | 1-784-213-11 | FFC/CONNECTOR, FPC (LIF (BIB-ZIF)) 14P | | | | |
| CN203 | 1-779-273-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 5P | | | | |
| < IC > | | | | | | |
| IC200 | 8-759-385-76 | IC MC14052 BDR2 | | | | |
| IC201 | 6-705-602-01 | IC MM1623BFBE | | | | |
| IC203 | 8-759-710-97 | IC NJM4565M-D | | | | |
| < JACK > | | | | | | |
| J200 | 1-764-593-21 | JACK 2P (VIDEO/SAT) | | | | |
| J201 | 1-817-449-11 | JACK, PIN 3P (COMPONENT VIDEO OUT) | | | | |
| J203 | 1-694-920-11 | TERMINAL BOARD (S TERMINAL+1P) | | | | |
| (MONITOR OUT) | | | | | | |
| < COIL > | | | | | | |
| L200 | 1-414-754-11 | INDUCTOR | 10uH | | | |
| L206 | 1-412-959-11 | INDUCTOR | 47uH | | | |
| L207 | 1-414-754-11 | INDUCTOR | 10uH | | | |
| L208 | 1-414-754-11 | INDUCTOR | 10uH | | | |
| < TRANSISTOR > | | | | | | |
| Q202 | 8-729-038-68 | TRANSISTOR | KRC103S | | | |
| Q203 | 8-729-038-68 | TRANSISTOR | KRC103S | | | |
| Q211 | 8-729-034-51 | TRANSISTOR | KTC3875 | | | |
| Q212 | 8-729-034-51 | TRANSISTOR | KTC3875 | | | |
| < RESISTOR > | | | | | | |
| R203 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/10W | |
| R204 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/10W | |
| R207 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | |
| R209 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | |
| R212 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | |
| R215 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | |
| R216 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R217 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R218 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R221 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R222 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R226 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R227 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R228 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R229 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R231 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W | |
| R232 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W | |

| Ref. No. | Part No. | Description | | | Remark |
|------------------------------|--------------|--------------------------------------|-------------------------------|------|--------|
| R233 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R234 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R235 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R236 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R237 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R238 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R239 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R244 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R248 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R251 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R253 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R254 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R256 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R257 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R259 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R260 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R263 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R267 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R268 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R271 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R272 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R275 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R277 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R284 | 1-216-832-11 | METAL CHIP | 8.2K | 5% | 1/10W |
| R285 | 1-216-822-11 | METAL CHIP | 1.2K | 5% | 1/10W |
| R286 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R287 | 1-216-835-11 | METAL CHIP | 15K | 5% | 1/10W |
| R290 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R292 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R293 | 1-216-835-11 | METAL CHIP | 15K | 5% | 1/10W |
| R294 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R295 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R296 | 1-216-822-11 | METAL CHIP | 1.2K | 5% | 1/10W |
| R298 | 1-216-832-11 | METAL CHIP | 8.2K | 5% | 1/10W |
| R300 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R301 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R302 | 1-218-867-11 | METAL CHIP | 6.8K | 0.5% | 1/10W |
| R303 | 1-218-867-11 | METAL CHIP | 6.8K | 0.5% | 1/10W |
| R305 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| ***** | | | | | |
| | 1-861-264-11 | LF BOARD | | | |
| ***** | | | | | |
| < CAPACITOR > | | | | | |
| △ C903 | 1-117-916-51 | FILM | 0.22uF | 10% | 275V |
| < CONNECTOR > | | | | | |
| CN900 | 1-564-321-00 | PIN, CONNECTOR (3.96mm PITCH) 2P | | | |
| * CN901 | 1-564-321-21 | PIN, CONNECTOR (3.96mm PITCH) 2P | | | |
| < LINE FILTER > | | | | | |
| △ LF901 | 1-456-081-21 | COIL, LINE FILTER (E41, EA, KR, AUS) | | | |
| △ LF901 | 1-456-082-11 | COIL, LINE FILTER (US, CND, MX, TW) | | | |
| ***** | | | | | |
| The components identified by | | | Les composants identifiés par | | |

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref. No. | Part No. | Description | Remark | | | | Ref. No. | Part No. | Description | Remark | | | |
|----------|---------------|-------------------------------------|--------|-----|------|--|----------|--------------|---------------------------------------|--------|--|--|--|
| | A-1052-864-A | MAIN BOARD, COMPLETE (150: MX) | | | | | CN504 | 1-785-466-11 | FFC/CONNECTOR, FPC (LIF (NON-ZIF)) 7P | | | | |
| | A-1053-127-A | MAIN BOARD, COMPLETE (AUS) | | | | | * CN505 | 1-784-365-31 | CONNECTOR, FFC/FPC 5P | | | | |
| | A-1054-637-A | MAIN BOARD, COMPLETE (E41) | | | | | CN509 | 1-779-285-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 17P | | | | |
| | A-1062-037-A | MAIN BOARD, COMPLETE (250: US, CND) | | | | | | | | | | | |
| | A-1065-470-A | MAIN BOARD, COMPLETE (EA) | | | | | CN513 | 1-779-289-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 21P | | | | |
| | A-1065-499-A | MAIN BOARD, COMPLETE (TW, KR) | | | | | | | < DIODE > | | | | |
| | A-1067-908-A | MAIN BOARD, COMPLETE (250: MX) | | | | | D502 | 8-719-988-61 | DIODE 1SS355TE-17 | | | | |
| | A-4752-751-A | MAIN BOARD, COMPLETE (150: US, CND) | | | | | D503 | 8-719-988-61 | DIODE 1SS355TE-17 | | | | |
| | ***** | | | | | | D504 | 8-719-988-61 | DIODE 1SS355TE-17 | | | | |
| | < CAPACITOR > | | | | | | D505 | 8-719-988-61 | DIODE 1SS355TE-17 | | | | |
| C501 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | D507 | 8-719-988-61 | DIODE 1SS355TE-17 | | | | |
| C502 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | D508 | 8-719-988-61 | DIODE 1SS355TE-17 | | | | |
| C503 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | < FERRITE BEAD > | | | | |
| C505 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | FB500 | 1-414-813-11 | FERRITE, EMI (SMD) (2012) | | | | |
| C506 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | FB503 | 1-216-295-91 | SHORT CHIP 0 | | | | |
| C507 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | FB505 | 1-469-324-21 | FERRITE, EMI (SMD) (2012) | | | | |
| C508 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | FB508 | 1-469-324-21 | FERRITE, EMI (SMD) (2012) | | | | |
| C509 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | | FB509 | 1-469-324-21 | FERRITE, EMI (SMD) (2012) | | | | |
| C510 | 1-104-658-91 | ELECT | 100uF | 20% | 10V | | | | < IC > | | | | |
| C511 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | IC509 | 6-804-494-01 | IC uPD703260YGF-S21-JBT-A | | | | |
| C512 | 1-104-658-91 | ELECT | 100uF | 20% | 10V | | IC511 | 6-701-680-01 | IC PST3629NR | | | | |
| C513 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | IC512 | 6-705-469-01 | IC BA50BC0FP-E2 | | | | |
| C514 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | IC513 | 6-705-469-01 | IC BA50BC0FP-E2 | | | | |
| C515 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | IC514 | 6-701-189-01 | IC MC74VHC1GU04DFT1 | | | | |
| C516 | 1-128-934-91 | CERAMIC CHIP | 0.33uF | 20% | 10V | | IC515 | 6-701-011-01 | IC uPC2910T-E1 | | | | |
| C517 | 1-128-934-91 | CERAMIC CHIP | 0.33uF | 20% | 10V | | IC516 | 6-705-470-01 | IC BA70BC0FP-E2 | | | | |
| C518 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | < COIL > | | | | |
| C519 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | L501 | 1-414-398-11 | INDUCTOR 10uH | | | | |
| C520 | 1-126-947-11 | ELECT | 47uF | 20% | 35V | | L502 | 1-414-398-11 | INDUCTOR 10uH | | | | |
| C521 | 1-126-923-91 | ELECT | 220uF | 20% | 10V | | L503 | 1-414-398-11 | INDUCTOR 10uH | | | | |
| C522 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | < TRANSISTOR > | | | | |
| C524 | 1-104-905-11 | CAPACITOR | 0.22F | | 5.5V | | Q505 | 8-729-038-54 | TRANSISTOR KRA102S | | | | |
| C525 | 1-104-658-91 | ELECT | 100uF | 20% | 10V | | Q506 | 8-729-034-51 | TRANSISTOR KTC3875 | | | | |
| C526 | 1-110-501-11 | CERAMIC CHIP | 0.33uF | 10% | 16V | | Q507 | 8-729-034-51 | TRANSISTOR KTC3875 | | | | |
| C527 | 1-104-658-91 | ELECT | 100uF | 20% | 10V | | Q508 | 8-729-034-51 | TRANSISTOR KTC3875 | | | | |
| C528 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | Q509 | 8-729-034-49 | TRANSISTOR KRC104S | | | | |
| C529 | 1-126-947-11 | ELECT | 47uF | 20% | 35V | | | | < RESISTOR > | | | | |
| C530 | 1-115-467-11 | CERAMIC CHIP | 0.22uF | 10% | 10V | | R501 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | | | | |
| C532 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | R502 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | | | | |
| C535 | 1-126-947-11 | ELECT | 47uF | 20% | 35V | | R503 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | | | | |
| C537 | 1-126-926-11 | ELECT | 1000uF | 20% | 10V | | R504 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | | | | |
| C539 | 1-115-467-11 | CERAMIC CHIP | 0.22uF | 10% | 10V | | R505 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | | | | |
| C540 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | R506 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | | | | |
| C546 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | R507 | 1-216-821-11 | METAL CHIP 1K 5% 1/10W | | | | |
| C547 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | R508 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | | | | |
| C548 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | R509 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | | | | |
| C549 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | R510 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | | | | |
| C550 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | R511 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | | | | |
| C552 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | R514 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | | | | |
| C553 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | R515 | 1-216-821-11 | METAL CHIP 1K 5% 1/10W | | | | |
| C554 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V | | R516 | 1-216-821-11 | METAL CHIP 1K 5% 1/10W | | | | |
| C555 | 1-126-916-11 | ELECT | 1000uF | 20% | 6.3V | | R517 | 1-216-833-11 | METAL CHIP 10K 5% 1/10W | | | | |
| C556 | 1-126-926-11 | ELECT | 1000uF | 20% | 10V | | | | | | | | |
| | < CONNECTOR > | | | | | | | | | | | | |
| CN501 | 1-779-285-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 17P | | | | | | | | | | | |
| CN503 | 1-778-691-11 | CONNECTOR, FFC/FPC 19P | | | | | | | | | | | |

HCD-BC150/BC250

MAIN MOTOR PANEL

| Ref. No. | Part No. | Description | | | Remark |
|----------|--------------|-------------|------|--------------------|--------|
| R518 | 1-216-835-11 | METAL CHIP | 15K | 5% | 1/10W |
| R521 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| | | | | (250: MX, CND) | |
| R522 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| | | | | (TW, EA, KR) | |
| R522 | 1-216-835-11 | METAL CHIP | 15K | 5% | 1/10W |
| | | | | (AUS) | |
| R522 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| | | | | (US, CND, MX, E41) | |
| R523 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R530 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R531 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R532 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R533 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| | | | | (250) | |
| R534 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R535 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R536 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R537 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R538 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R539 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R540 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| | | | | (MX, E41) | |
| R540 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| | | | | (US, CND) | |
| R540 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| | | | | (EA, AUS) | |
| R542 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R543 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R546 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R547 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R548 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R549 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R550 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R551 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R552 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R553 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R555 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R556 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R558 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R560 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R562 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R563 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R564 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R565 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R566 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R567 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R568 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R571 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R572 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R573 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R574 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R576 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R577 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R578 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R579 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R580 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R582 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |


| Ref. No. | Part No. | Description | | | Remark |
|----------|--------------|-----------------------|-------|-----|--------|
| R586 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R588 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R589 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R590 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R591 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R592 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R593 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R594 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R595 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R596 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R598 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R599 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R600 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R601 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R603 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R604 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R605 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R607 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R609 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R610 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R611 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R612 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R613 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R614 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R615 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R616 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R617 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R620 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R621 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R624 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R690 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R691 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R692 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R693 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R698 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R699 | 1-216-864-11 | SHORT CHIP | 0 | | |
| | | < VIBRATOR > | | | |
| X501 | 1-795-058-21 | VIBRATOR, CERAMIC | | | |
| ***** | | | | | |
| | | MOTOR BOARD | | | |
| | | ***** | | | |
| | | < SWITCH > | | | |
| S761 | 1-786-704-11 | SWITCH, LEVER | | | |
| ***** | | | | | |
| | A-4752-728-A | PANEL BOARD, COMPLETE | | | |
| | | ***** | | | |
| | 4-255-281-01 | LED HOLDER | | | |
| | | < CAPACITOR > | | | |
| C817 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C818 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C819 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C821 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C823 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |

PANEL

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------------|--------------|------------------------------------|--------|------------|--------------|--------------------------------|--------|
| C826 | 1-124-234-00 | ELECT 22uF 20% 10V | | R824 | 1-216-821-11 | METAL CHIP 1K 5% 1/10W | |
| C830 | 1-163-037-11 | CERAMIC CHIP 0.022uF 10% 50V | | R825 | 1-216-825-11 | METAL CHIP 2.2K 5% 1/10W | |
| C835 | 1-162-974-11 | CERAMIC CHIP 0.01uF 50V | | R826 | 1-216-812-11 | METAL CHIP 180 5% 1/10W | |
| C836 | 1-119-943-91 | ELECT 47uF 20% 50V | | R827 | 1-216-812-11 | METAL CHIP 180 5% 1/10W | |
| C837 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | | R828 | 1-216-825-11 | METAL CHIP 2.2K 5% 1/10W | |
| C860 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% 25V | | R829 | 1-216-812-11 | METAL CHIP 180 5% 1/10W | |
| C861 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% 25V | | R830 | 1-216-812-11 | METAL CHIP 180 5% 1/10W | |
| C862 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% 25V | | R831 | 1-216-812-11 | METAL CHIP 180 5% 1/10W | |
| < CONNECTOR > | | | | R832 | 1-216-829-11 | METAL CHIP 4.7K 5% 1/10W | |
| CN800 | 1-779-556-21 | CONNECTOR, FFC (LIF (NON-ZIF)) 19P | | R833 | 1-216-812-11 | METAL CHIP 180 5% 1/10W | |
| CN801 | 1-568-828-11 | CONNECTOR, FFC 9P | | R834 | 1-216-812-11 | METAL CHIP 180 5% 1/10W | |
| < DIODE > | | | | R835 | 1-216-812-11 | METAL CHIP 180 5% 1/10W | |
| D803 | 6-500-522-01 | DIODE 10EDB40-TA1B2 | | R836 | 1-216-833-11 | METAL CHIP 10K 5% 1/10W | |
| D806 | 8-719-056-13 | DIODE SML79423C-TP15 (DISC1) | | R837 | 1-216-812-11 | METAL CHIP 180 5% 1/10W | |
| D807 | 8-719-056-13 | DIODE SML79423C-TP15 (DISC2) | | R838 | 1-216-812-11 | METAL CHIP 180 5% 1/10W | |
| D808 | 8-719-056-13 | DIODE SML79423C-TP15 (DISC3) | | R839 | 1-216-839-11 | METAL CHIP 33K 5% 1/10W | |
| D809 | 8-719-056-13 | DIODE SML79423C-TP15 (DISC4) | | R840 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | |
| D810 | 8-719-988-61 | DIODE 1SS355TE-17 | | R841 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | |
| D811 | 8-719-988-61 | DIODE 1SS355TE-17 | | R842 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | |
| D812 | 8-719-056-13 | DIODE SML79423C-TP15 (DISC5) | | R843 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | |
| D813 | 8-719-988-61 | DIODE 1SS355TE-17 | | R844 | 1-216-837-11 | METAL CHIP 22K 5% 1/10W | |
| D814 | 8-719-988-61 | DIODE 1SS355TE-17 | | R845 | 1-216-821-11 | METAL CHIP 1K 5% 1/10W | |
| D815 | 8-719-069-56 | DIODE UDZSTE-176.2B | | R846 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | |
| D816 | 6-500-940-01 | DIODE SEL6E14C-STP5 | | R847 | 1-216-833-11 | METAL CHIP 10K 5% 1/10W | |
| D817 | 6-500-940-01 | DIODE SEL6E14C-STP5 | | R848 | 1-216-825-11 | METAL CHIP 2.2K 5% 1/10W | |
| D818 | 6-500-940-01 | DIODE SEL6E14C-STP5 | | R849 | 1-216-829-11 | METAL CHIP 4.7K 5% 1/10W | |
| D819 | 6-500-940-01 | DIODE SEL6E14C-STP5 | | R850 | 1-216-825-11 | METAL CHIP 2.2K 5% 1/10W | |
| D820 | 6-500-940-01 | DIODE SEL6E14C-STP5 | | R851 | 1-216-825-11 | METAL CHIP 2.2K 5% 1/10W | |
| D821 | 6-500-940-01 | DIODE SEL6E14C-STP5 | | R852 | 1-216-829-11 | METAL CHIP 4.7K 5% 1/10W | |
| < SHORT > | | | | R855 | 1-216-825-11 | METAL CHIP 2.2K 5% 1/10W | |
| FB804 | 1-216-864-11 | SHORT CHIP 0 | | R856 | 1-216-837-11 | METAL CHIP 22K 5% 1/10W | |
| < IC > | | | | R859 | 1-216-821-11 | METAL CHIP 1K 5% 1/10W | |
| IC802 | 6-701-888-01 | IC BU2152FS | | R861 | 1-216-864-11 | SHORT CHIP 0 | |
| < COIL > | | | | R866 | 1-216-815-11 | METAL CHIP 330 5% 1/10W | |
| L804 | 1-410-671-31 | INDUCTOR 47uH | | R869 | 1-216-815-11 | METAL CHIP 330 5% 1/10W | |
| L806 | 1-469-144-21 | FERRITE, EMI (SMD) (2012) | | R873 | 1-216-815-11 | METAL CHIP 330 5% 1/10W | |
| < TRANSISTOR > | | | | < SWITCH > | | | |
| Q806 | 8-729-034-51 | TRANSISTOR KTC3875 | | S801 | 1-771-608-21 | SWITCH, TACTILE (≡ (DISC1)) | |
| Q807 | 8-729-034-51 | TRANSISTOR KTC3875 | | S802 | 1-771-608-21 | SWITCH, TACTILE (≡ (DISC2)) | |
| Q808 | 6-550-065-01 | TRANSISTOR CPH5504-TL-E | | S803 | 1-762-875-21 | SWITCH, KEYBOARD (FUNCTION) | |
| Q820 | 8-729-038-68 | TRANSISTOR KRC103S | | S804 | 1-771-608-21 | SWITCH, TACTILE (DISC1) | |
| Q821 | 8-729-038-68 | TRANSISTOR KRC103S | | S805 | 1-771-608-21 | SWITCH, TACTILE (DISC2) | |
| Q822 | 8-729-038-68 | TRANSISTOR KRC103S | | S806 | 1-771-608-21 | SWITCH, TACTILE (DISC3) | |
| < RESISTOR > | | | | S807 | 1-762-875-21 | SWITCH, KEYBOARD (VOLUME -) | |
| R812 | 1-216-864-11 | SHORT CHIP 0 | | S808 | 1-762-875-21 | SWITCH, KEYBOARD (▶▶ PRESET +) | |
| R817 | 1-216-821-11 | METAL CHIP 1K 5% 1/10W | | S809 | 1-762-875-21 | SWITCH, KEYBOARD (▷) | |
| R818 | 1-216-833-11 | METAL CHIP 10K 5% 1/10W | | S810 | 1-762-875-21 | SWITCH, KEYBOARD (■) | |
| R821 | 1-216-828-11 | METAL CHIP 3.9K 5% 1/10W | | S811 | 1-771-608-21 | SWITCH, TACTILE (DISC4) | |
| R823 | 1-216-841-11 | METAL CHIP 47K 5% 1/10W | | S812 | 1-771-608-21 | SWITCH, TACTILE (DISC5) | |
| | | | | S813 | 1-762-875-21 | SWITCH, KEYBOARD (◀◀ PRESET -) | |
| | | | | S814 | 1-771-608-21 | SWITCH, TACTILE (≡ (DISC5)) | |
| | | | | S815 | 1-762-875-21 | SWITCH, KEYBOARD (VOLUME +) | |
| | | | | S816 | 1-771-608-21 | SWITCH, TACTILE (≡ (DISC4)) | |
| | | | | S817 | 1-762-875-21 | SWITCH, KEYBOARD (■) | |
| | | | | S818 | 1-771-608-21 | SWITCH, TACTILE (≡ (DISC3)) | |

HCD-BC150/BC250

| | | |
|-------|----------|----|
| PANEL | POWER SW | RF |
|-------|----------|----|

| Ref. No. | Part No. | Description | Remark | | | |
|-----------------|--------------|---|----------|-----|-------|--|
| < TRANSFORMER > | | | | | | |
| T801 | 1-443-172-11 | TRANSFORMER, DC-DC CONVERTER | ***** | | | |
| | 1-861-265-11 | POWER SW BOARD | ***** | | | |
| < CAPACITOR > | | | | | | |
| C805 | 1-126-795-11 | ELECT | 10uF | 20% | 50V | |
| C807 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | |
| < CONNECTOR > | | | | | | |
| CN805 | 1-785-331-11 | PIN, CONNECTOR (LIGHT ANGLE) 5P | | | | |
| < DIODE > | | | | | | |
| D802 | 6-500-809-01 | DIODE SELU5223C-STP15 (STAND BY) | | | | |
| < IC > | | | | | | |
| IC800 | 8-759-826-34 | IC NJL74H400A () | | | | |
| < RESISTOR > | | | | | | |
| R804 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W | |
| R811 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R814 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W | |
| < SWITCH > | | | | | | |
| S800 | 1-762-875-21 | SWITCH, KEYBOARD (I/⏻) | ***** | | | |
| | A-4728-690-A | RF BOARD, COMPLETE | ***** | | | |
| < CAPACITOR > | | | | | | |
| C001 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V | |
| C002 | 1-124-779-00 | ELECT CHIP | 10uF | 20% | 16V | |
| C003 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V | |
| C004 | 1-124-779-00 | ELECT CHIP | 10uF | 20% | 16V | |
| C005 | 1-128-993-21 | ELECT CHIP | 22uF | 20% | 10V | |
| C006 | 1-128-993-21 | ELECT CHIP | 22uF | 20% | 10V | |
| C008 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | |
| C009 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | |
| C010 | 1-115-416-11 | CERAMIC CHIP | 0.001uF | 5% | 25V | |
| C011 | 1-115-416-11 | CERAMIC CHIP | 0.001uF | 5% | 25V | |
| C012 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | |
| C013 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | |
| C014 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | |
| C015 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | |
| C016 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | |
| C017 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | |
| C018 | 1-164-172-11 | CERAMIC CHIP | 0.0056uF | 10% | 25V | |
| C019 | 1-164-172-11 | CERAMIC CHIP | 0.0056uF | 10% | 25V | |
| C020 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V | |
| C021 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V | |
| C022 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V | |
| C023 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V | |
| C024 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | |

| Ref. No. | Part No. | Description | Remark | | |
|----------------|--------------|------------------------------------|----------|-----------|-------|
| C025 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C026 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C027 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C028 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C029 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C030 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C031 | 1-115-416-11 | CERAMIC CHIP | 0.001uF | 5% | 25V |
| C032 | 1-165-176-11 | CERAMIC CHIP | 0.047uF | 10% | 16V |
| C033 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C034 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C035 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C036 | 1-125-891-11 | CERAMIC CHIP | 0.47uF | 10% | 10V |
| C037 | 1-115-412-11 | CERAMIC CHIP | 680PF | 5% | 25V |
| C038 | 1-164-677-11 | CERAMIC CHIP | 0.033uF | 10% | 16V |
| C039 | 1-164-677-11 | CERAMIC CHIP | 0.033uF | 10% | 16V |
| C040 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C041 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C042 | 1-164-218-11 | CERAMIC CHIP | 180PF | 5% | 50V |
| C049 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C050 | 1-162-967-11 | CERAMIC CHIP | 0.0033uF | 10% | 50V |
| C051 | 1-125-891-11 | CERAMIC CHIP | 0.47uF | 10% | 10V |
| C052 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| < CONNECTOR > | | | | | |
| CN001 | 1-815-031-11 | CONNECTOR, FFC/FPC (ZIF) 24P | | | |
| CN002 | 1-784-836-21 | CONNECTOR, FFC (LIF (NON-ZIF)) 29P | | | |
| CN003 | 1-784-861-21 | CONNECTOR, FFC (LIF (NON-ZIF)) 9P | | | |
| < DIODE > | | | | | |
| D001 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D002 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| < IC > | | | | | |
| IC001 | 6-703-922-01 | IC SP3723CAF0PM | | | |
| IC003 | 6-703-921-01 | IC TL343IDBVR | | | |
| < COIL > | | | | | |
| L001 | 1-412-031-11 | INDUCTOR | | 47uH | |
| L002 | 1-412-031-11 | INDUCTOR | | 47uH | |
| < TRANSISTOR > | | | | | |
| Q001 | 8-729-903-46 | TRANSISTOR | | 2SB1132-P | |
| Q002 | 8-729-903-46 | TRANSISTOR | | 2SB1132-P | |
| < RESISTOR > | | | | | |
| R001 | 1-218-668-11 | METAL CHIP | 100 | 0.5% | 1/10W |
| R003 | 1-216-803-11 | METAL CHIP | 33 | 5% | 1/10W |
| R004 | 1-216-803-11 | METAL CHIP | 33 | 5% | 1/10W |
| R005 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R006 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R007 | 1-216-803-11 | METAL CHIP | 33 | 5% | 1/10W |
| R008 | 1-216-803-11 | METAL CHIP | 33 | 5% | 1/10W |
| R009 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R010 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R011 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R012 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R013 | 1-216-864-11 | SHORT CHIP | 0 | | |

HCD-BC150/BC250

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|---|--------|
| | | MISCELLANEOUS ***** | |
| 5 | 1-763-861-12 | FAN, DC | |
| 6 | 1-828-962-11 | WIRE (FLAT TYPE) (11 CORE) | |
| 57 | 1-962-870-11 | WIRE (FLAT TYPE) (9 CORE) | |
| 58 | 1-829-211-11 | WIRE (FLAT TYPE) (19 CORE) | |
| 103 | 1-500-386-21 | FILTER, CLAMP (FERRITE CORE) | |
| △ 105 | 1-783-531-72 | CORD, POWER (US, CND) | |
| △ 105 | 1-696-169-51 | CORD, POWER (E41) | |
| △ 105 | 1-696-847-22 | CORD, POWER (AUS) | |
| △ 105 | 1-751-520-21 | CORD, POWER (EA) | |
| △ 105 | 1-775-789-91 | CORD, POWER (MX) | |
| △ 105 | 1-827-597-41 | CORD, POWER (TW) | |
| △ 105 | 1-769-079-32 | CORD, POWER (KR) | |
| △ 108 | 1-468-836-12 | REGULATOR, SWITCHING (US, CND, MX, TW) | |
| △ 108 | 1-468-837-12 | REGULATOR, SWITCHING (EA, E41, KR, AUS) | |
| 112 | 1-828-411-11 | WIRE (FLAT TYPE) (29 CORE) | |
| 114 | 1-828-371-11 | WIRE (FLAT TYPE) (21 CORE) | |
| 115 | 1-828-349-11 | WIRE (FLAT TYPE) (17 CORE) | |
| 116 | 1-829-212-11 | WIRE (FLAT TYPE) (15 CORE) | |
| 117 | 1-962-869-11 | WIRE (FLAT TYPE) (5 CORE) | |
| 118 | 1-828-954-11 | WIRE (FLAT TYPE) (9 CORE) | |
| △ 302 | A-4713-410-A | OPTICAL PICK-UP (DBU-1) | |
| 305 | 1-824-106-12 | CABLE, FLEXIBLE FLAT (24 CORE) | |
| M761 | A-4713-174-A | MOTOR (81) ASSY (LD/ST MOTOR) | |
| M762 | A-4713-174-A | MOTOR (81) ASSY (BU U/D MOTOR) | |
| S771 | 1-478-552-11 | ENCODER, ROTARY (MD) | |
| S781 | 1-478-551-11 | ENCODER, ROTARY (ST U/D ENCODER) | |

| | |
|--|--|
| The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |
|--|--|

HCD-BC150/BC250

SONY®

SERVICE MANUAL

Ver 1.1 2004.06

US Model
Canadian Model
E Model
HCD-BC150/BC250
Australian Model
HCD-BC150

SUPPLEMENT-1

| |
|--|
| Subject: TEST MODE and ELECTRICAL ADJUSTMENT |
|--|

SECTION 1 TEST MODE

- Note 1:** Regarding the notification symbol “R”
Because the number of the operating buttons of this product are limited, some operations require use of the operating buttons of the remote commander (RM-SS250 supplied with the product). When a specific operation requires use of the operating buttons of the remote commander (RM-SS250), “R” is added to the specific operating procedure in this manual. Example **[MENU/NO “R”]** The **[MENU/NO]** button of remote commander.
- Note 2:** Incorrect operations may be performed if the test mode is not entered properly.
In this case, press the **[I/O]** button to turn the power off, and retry to enter the test mode.

1. Cold Reset

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customers.

Procedure:

- Press the **[I/O]** button to turn the power on.
- Press three buttons **[▶▶]**, **[▶]** and **[DISC1]** simultaneously.
- When this button is operated, display as “Cold RESET” for a while and all of the settings are reset.

2. Panel Test Mode

- This mode is used to check the software version, LCD, LED and keyboard.

2-1. DVD LED Test Mode

Procedure:

- Press the **[I/O]** button to turn on the power.
- Press three buttons **[VOLUME -]**, **[◀◀]** and **[DISC1]** simultaneously.
- When the display LED test mode is activated, all segments are turned on.
- To exit from this mode, press the **[I/O]** button.

2-2. Version Test Mode

Procedure:

- Press the **[I/O]** button to turn the power on.
- To enter the version test mode, press three buttons **[VOLUME -]**, **[VOLUME +]** and **[DISC1]** simultaneously.
- Whenever press the **[▶▶]** button, the version is displayed in order of STR and DVD.
- To exit from this mode, press the **[I/O]** button.

2-3. Key Test Mode

Procedure:

- Press the **[I/O]** button to turn the power on.
- Press three buttons **[VOLUME -]**, **[VOLUME +]** and the **[FUNCTION]** simultaneously.
- To enter the KEY test mode, the fluorescent indicator displays “KEY 0”. Each time a button is pressed, “KEY” value increases. However, once a button is pressed, it is no longer taken into account. When all keys are pressed correctly, “KEY 19” is displayed.
- To exit from this mode, pull out the AC plug.

3. AMP Test

Procedure:

- Press the **[I/O]** button to turn the power on.
- To enter the AMP test mode, press three buttons **[VOLUME -]**, the **[◀◀]** and **[FUNCTION]** simultaneously.
- Whenever press the **[AUTO FORMAT DIRECT “R”]** button, the version is displayed in order of SWAPF2S, SWAPF2CW, SWAP FULL, EQMIN, EQMAX and SRAHCHECK.

- When the common test mode is activated, each time press the **[NIGHT MODE “R”]** button, the message “NIGHT MODE” is displayed in this order.
- The message “Volume MAX” is displayed, when press the **[VOLUME +]** button or **[VOLUME + “R”]** button. The message “Volume MIN” is displayed, when press the **[VOLUME -]** button or **[VOLUME - “R”]** button.
- Each time press the **[DSGX “R”]** button, the message “DSGX ON”, “DSGX OFF” is displayed in this order.
- To exit from this mode, press the **[I/O]** button to turn off the main power.

4. DVD Repeat 5 Times Limit Release Mode

Procedure:

- Press the **[I/O]** button to turn the power on.
- Press three buttons **[▶▶]**, **[VOLUME +]** and the **[DISC1]** simultaneously.
- To exit from this mode, press the **[I/O]** button.

5. Disc Tray Lock

The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Setting Procedure :

- Press the **[I/O]** button to turn the set on.
- Press the **[FUNCTION]** button to set DVD function.
- Insert a disc.
- Press the **[▶▶]** button and the **[DISC1]** button simultaneously for five seconds.
- The message “LOCKED” is displayed and the tray is locked.

Releasing Procedure :

- Press the **[▶▶]** button and the **[DISC1]** button simultaneously for five seconds. again.
- The message “UNLOCKED” is displayed and the tray is unlocked.

Note: When “LOCKED” is displayed, the slot lock is not released by turning power on/off with the **[I/O]** button.

6. DVD Ship Mode

- This mode moves the optical pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

- Press the **[I/O]** button to turn the set on.
- Press the **[FUNCTION]** button to set the function “DVD”.
- Press three buttons **[◀◀]**, **[DISC1]** and **[▶▶]** simultaneously.
- After a message “MECH LOCK” is displayed on the fluorescent indicator tube, pull out the AC plug.
- To exit from this mode, press the **[I/O]** button to turn the set on.

7. DVD Debug In Mode

Procedure:

- Press the **[I/O]** button to turn the set on.
- Press the **[FUNCTION]** button to set the function “DVD”.
- Press the three buttons **[VOLUME +]**, **[DISC1]** and **[▶▶]** simultaneously.
- To exit from this mode, press the **[I/O]** button to turn the set on.

DVD SECTION**[GENERAL DESCRIPTION]**

The Test Mode allows you to make diagnosis and adjustment easily using the remote commander and monitor TV. The instructions, diagnostic results, etc. are given on the on-screen display (OSD).

[TEST DISC LIST]

Use the following test disc on test mode.





TDV-520CSO (DVD-SL): PART No. J-2501-236-A

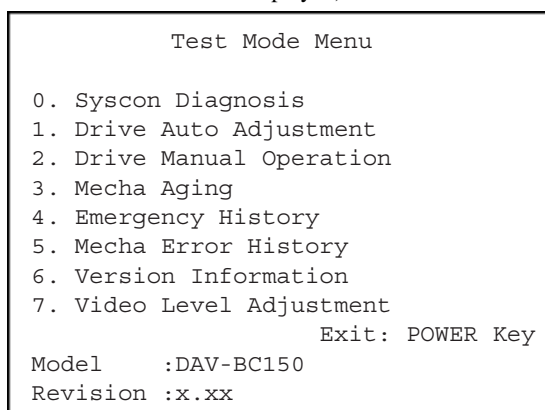
LUV-P01 (CD): PART No. 4-999-032-01


TDV-540C (DVD-DL): PART No. J-2501-235-A

Note: Do not use exiting test disc for DVD.

[STARTING TEST MODE]


1. Press the  button to turn the power on, and set the function to DVD.
2. While pressing the  stick and  (DISC1) button, turn the  knob clockwise to enter the test mode.
3. It displays "SERVICE IN" on the fluorescent indicator tube, and displays the Test Mode Menu on the monitor screen as follows. (At the bottom of the menu screen, the model name and revision number are displayed)

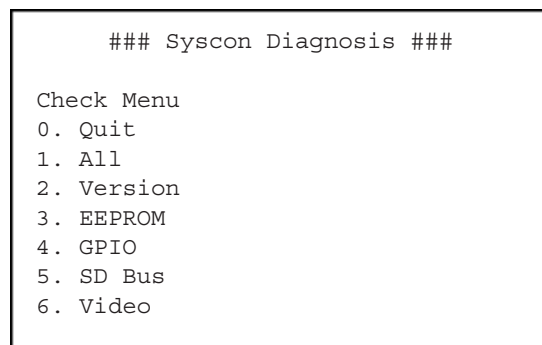


4. To execute each function, select the desired menu and press its number on the remote commander.
5. To release from test mode, press the  button and turn the power off.

[OPERATING TEST MODE]**0. SYSCON DIAGNOSIS**

The same contents as board detail check by serial interface can be checked from the remote commander operation.

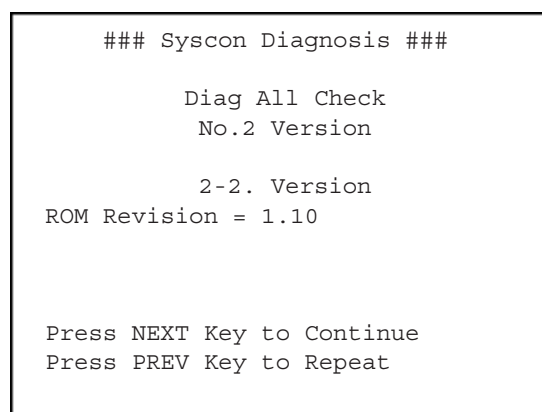
On the Test Mode Menu screen, press  "R" key on the remote commander, and the following Check Menu will be displayed.

**0-0. Quit**




Quit the Syscon Diagnosis and return to the Test Mode Menu.

0-1. All (All items continuous check)

This menu checks all diagnostic items continuously. Normally, all items are checked successively one after another automatically unless an error is found, but at a certain item that requires judgment through a visual check to the result, the following screen is displayed for the key entry.

• Example display

For the ROM Check, the check sum calculated by the Syscon is output, and therefore you must compare it with the specified value for confirmation.

Following the message, press the  "R" button to go to the next item, or press the  "R" button to repeat the same operation again. To quit the diagnosis and return to Check Menu screen, press the  "R" key on the remote commander to display Check Menu.

General Description of Checking Method

Selecting 2 and subsequent items calls the submenu screen of each item. And selecting 2 and subsequent items executes respective menus and outputs the results.

For the contents of each submenu, see "Check Items List" as below.

Check Items List:

- 0-2. Version
 - 0-2-1. All
 - 0-2-2. Revision
 - 0-2-3. ROM Check Sum
 - 0-2-4. Model Type
 - 0-2-5. Region
- 0-3. EEPROM Check
 - 0-3-1. Sampling Check
 - 0-3-2. Detail Check
- 0-4. GP I/O Check
- 0-5. SD Bus Check
- 0-6. Video Check

0-2. Version

- 0-2-2. Revision
The revision number of ROM (IC206) that the program for the DVD system processor (IC207) is stored.
- 0-2-3. ROM Check Sum
The check sum of ROM (IC206) that the program for the DVD system processor (IC207) is stored. (4 digits hexadecimal number)
- 0-2-4. Model Type
Model name is displayed. (DAV-BC150)
- 0-2-5. Region
Model destination code is displayed. (2 digits number)

0-3. EEPROM Check

- 0-3-1. Sampling Check
EEPROM check at every 64 words.
It compares read data with write data of each address.
When there are discrepancies between two data, it displays error.
- 0-3-2. Detail Check
EEPROM check at every 1 word.
It compares read data with write data of each address.
When there are discrepancies between two data, it displays error.

0-4. GP I/O Check

Pull up/down setting check of the DVD system processor (IC207) pin 150, 151 and 154 (for clock setting port).

0-5. SD Bus Check

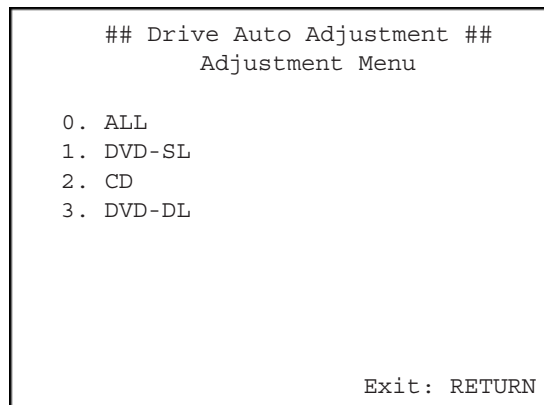
SD bus data check between DVD decoder (IC701) and D-RAM (IC706).

0-6. Video Check

Output the color bars for video level adjustment.

1. DRIVE AUTO ADJUSTMENT

On the Test Mode Menu screen, press the [1 "R"] key on the remote commander, and the Adjustment Menu will be displayed.



Normally, [0 "R"] is selected to adjust DVD (single layer), CD and DVD (dual layer) in this order. But, individual items can be adjusted for the case where adjustment is suspended due to an error. In this mode, the adjustment can be made easily through the operation following the message displayed on the screen. The disc used for adjustment must be the one specified for adjustment.

1-0. ALL

Press the [0 "R"] key on the remote commander, and the servo set data in EEPROM will be initialized. Then, 1. DVD-SL disc, 2. CD disc and 3. DVD-DL disc are adjusted in this order. Each time one disc was adjusted, it is ejected. Replace it with the specified disc following the message. You can finish the adjustment by pressing the [RETURN] ⏮ "R" button on the remote commander.

Note: During adjustment of each disc, the measurement for disc type judgment is made. As automatic adjustment does not judge the disc type unlike conventional models, take care not to insert wrong type discs. Also, do not give a shock during adjustment.

1-1. DVD-SL (single layer)

Press the [1 "R"] key on the remote commander and insert a DVD single layer disc following the message. Then the adjustment will be made through the steps below, then adjusted values will be written to the EEPROM.

DVD Single Layer Disc Adjustment Steps:

1. Sled tilt reset
2. Disc check memory SL
3. Wait 300 msec
4. Set disc type SL
5. LD on
6. Spindle start
7. Wait 1 sec
8. Focus servo on 0
9. Auto track offset adjust
10. CLVA on
11. Wait 500 msec
12. Tracking on
13. Wait 1 sec
14. Sled on
15. Check CLV on
16. Auto LFO adjust
17. Auto focus offset adjust
18. Auto tilt position adjust
19. Auto focus gain adjust
20. Auto focus offset adjust

21. EQ boost adjust
22. Auto loop filter offset adjust
23. Auto track gain adjust
- Search Check
24. 32 track jump forward
25. 32 track jump reverse
26. 500 track jump forward
27. 500 track jump reverse
28. All servo stop
29. EEP copy loop filter offset

1-2. CD

Press the [2 "R"] key on the remote commander and insert a CD disc following the message. Then the adjustment will be made through the steps below, then adjusted values will be written to the EEPROM.

CD Adjustment Steps

1. Sled tilt rest
2. Disc check memory CD
3. Wait 500 msec
4. Set disc type CD
5. LD on
6. Spindle start
7. Wait 500 msec
8. Focus servo on 0
9. Auto track offset adjust
10. CLVA on
11. Wait 500 msec
12. Tracking on
13. (TC display start)
14. Wait 1 sec
15. Jitter display start
16. Sled ON
17. Check CLV on
18. Auto loop filter offset adjust
19. Auto focus offset adjust
20. Auto focus gain adjust
21. Auto focus offset adjust
22. EQ boost adjust
23. Auto LFO Adjust
24. Auto track gain adjust
- Search Check
25. 32Tj forward
26. 32Tj reverse
27. 500Tj forward
28. 500Tj reverse
29. All servo stop

1-3. DVD-DL (dual layer)

Press the [3 "R"] key on the remote commander and insert a DVD dual layer disc following the message. Then the adjustment will be made through the steps below, then adjusted values will be written to the EEPROM.

DVD Dual Layer Disc Adjustment Steps:

1. Sled tilt reset
2. Disc check memory DL
3. Wait 500 msec
4. Set disc type DL
5. LD on
6. Spindle start
7. Wait 1 sec

Layer 1 Adjust

8. Focus servo on 0
9. Auto track offset adjust
10. CLVA on

11. Wait 500 msec
12. Tracking on
13. Wait 500 msec
14. Sled on
15. Check CLV lock
16. Auto loop filter offset adjust, Auto focus adjust
17. Auto focus gain adjust
18. Auto focus offset adjust
19. EQ boost adjust
20. Auto loop filter offset adjust
21. Auto Track Gain Adjust
- Search Check
22. 32 track jump forward
23. 32 track jump reverse
24. 500 track jump forward
25. 500 track jump reverse

Layer 0 Adjust

26. Focus jump (L1 → L0)
27. Auto track offset adjust L0
28. CLVA on
29. Wait 500 msec
30. Tracking on
31. Wait 500 msec
32. Sled on
33. Check CLV lock
34. Auto focus filter offset adjust
35. Auto Focus Adjust
36. Auto focus gain adjust
37. Auto focus offset adjust
38. EQ boost adjust
39. Auto Loop Filter Offset
40. Auto track gain adjust

Search Check

41. 32 track jump forward
42. 32 track jump reverse
43. 500 track jump forward
44. 500 track jump reverse

Layer Jump Check

45. Layer jump (L0 → L1)
46. Layer jump (L1 → L0)
47. All servo stop

2. DRIVE MANUAL OPERATION

Note: This mode is used for design, and not used in service fundamentally.

On the Test Mode Menu screen, press the [2 "R"] key on the remote commander, and the Operation Menu will be displayed. For the manual operation, each servo on/off control and adjustment can be executed manually.



```

## Drive Manual Operation ##
      Operation Menu
1. Disc Type
2. Servo Control
3. Track/Layer Jump
4. Non EEPROM Write Adjust
5. EEPROM Write Adjust
6. Memory Check
7. Disc Check Memory
8. Error Rate Display
9. SACD Water Mark


Exit: RETURN


```


In using the manual operation menu, take care of the following points. These commands do not provide protection, thus requiring correct operation. The sector address or time code field is displayed when a disc is loaded.


- Note:**
- 1. Set correctly the disc type to be used on the Disc Type screen.
 - 2. In case of an alarm, immediately press the  stick to stop the servo operation, and press the  button to turn the power off.



Basic operation:
(controllable from front panel or remote commander)

 : Power OFF (release the Test Mode)



 : Servo stop

 (DISC1) : Stop and eject/Loading

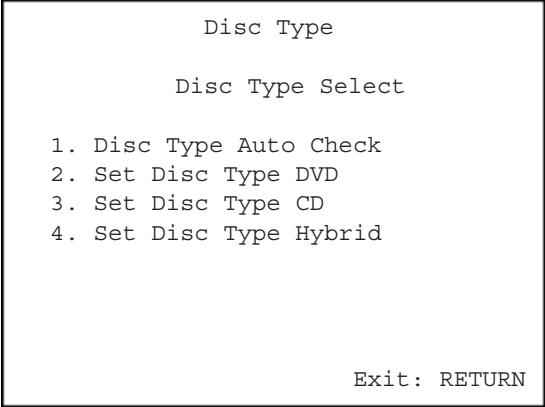
RETURN  "R" : Return to Operation Menu or Test Mode Menu

 "R",  "R" : Transition between sub modes of menu

1 "R" to 9 "R", 0 "R" : Selection of menu items

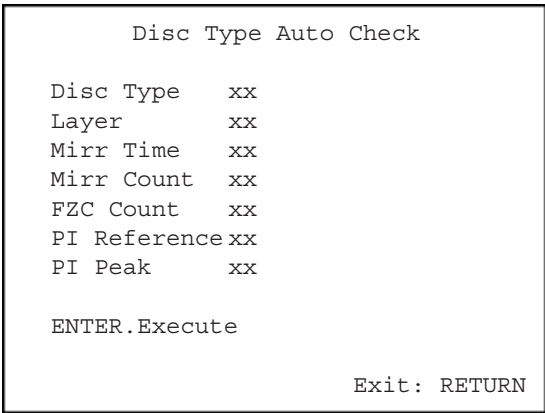
Cursor  "R" /  "R" : Increase/Decrease in manually adjusted value

2-1. Disc Type



2-1-1. Disc Type Auto Check

- 1) Press the 1 "R" key on the remote commander to display the Disc Type Auto Check screen.
- 2) Insert a disc and press the ENTER/YES "R" key on the remote commander.
- 3) It judges the type of inserted disc automatically and displays the disc type and so on as below.



Disc Type : CD, DVD or Hybrid (SACD)

Layer : SINGLE, DUAL or HYBRID

Mirr Time : Mirror time of between disc surface and record surface when disc type judgment. (hexadecimal number)

Mirr Count : The number of times which mirror counts between disc surface and record surface when disc type judging.

FZC Count : The number of times which focus zero cross points of each layer when lens down.

PI Reference : The average of PI reference voltage. (hexadecimal number)

PI Peak : PI peak level voltage. It performs only when disc type judgment is successful. (hexadecimal number)

2-1-2. Disc Type DVD

It sets up so that it may judge as a disc type of specification of the disc with which the set was inserted.

- 1: DVD single layer disc (12 cm)
- 2: DVD dual layer disc (0 layer, 12 cm)
- 3: DVD dual layer disc (1 layer, 12 cm)
- 4: DVD-RW disc (12 cm)
- 5: DVD single layer disc (8 cm)
- 6: DVD dual layer disc (0 layer, 8 cm)
- 7: DVD dual layer disc (1 layer, 8 cm)
- 8: DVD-RW disc (8 cm)

2-1-3. Disc Type CD

It sets up so that it may judge as a disc type of specification of the disc with which the set was inserted.

- 1: CD disc (normal speed, 12 cm)
- 2: CD disc (double speed, 12 cm)
- 3: CD disc (normal speed, 8 cm)
- 4: CD disc (double speed, 8 cm)
- 5: CD-RW disc (normal speed, 12 cm)
- 6: CD-RW disc (double speed, 12 cm)
- 7: CD-RW disc (normal speed, 8 cm)
- 8: CD-RW disc (double speed, 8 cm)

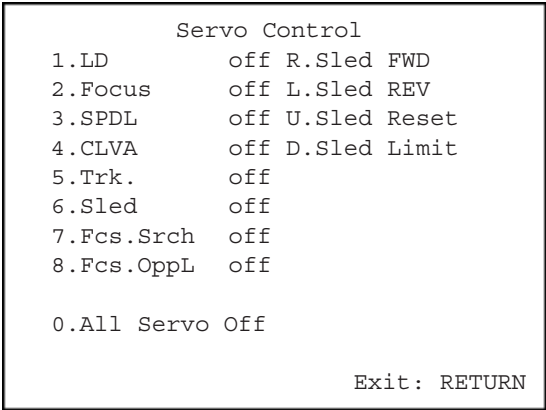
2-1-4. Disc Type Hybrid

It sets up so that it may judge as a disc type of specification of the disc with which the set was inserted.

- 1: SACD Hybrid disc (SACD layer, 12 cm)
- 2: SACD Hybrid disc (CD layer, normal speed, 12 cm)
- 3: SACD Hybrid disc (CD layer, double speed, 12 cm)
- 4: SACD Hybrid disc (SACD layer, 8 cm)
- 5: SACD Hybrid disc (CD layer, normal speed, 8 cm)
- 6: SACD Hybrid disc (CD layer, double speed, 8 cm)

2-2. Servo Control

Note: Be sure to perform the disc type setup before performing this item.



On this screen, the servo on/off control necessary for replay is executed. Normally, turn on each servo from 1 sequentially and when CLVA is turned on, the usual trace mode becomes active. In the trace mode, DVD sector address or CD time code is displayed. This is not displayed where the spindle is not locked. The spindle could run overriding the control if the spindle system is faulty or RF is not present. In such a case, do not operate CLVA.

- [1] LD : Turn on/off the laser.
- [2] Focus : Search the focus and turn on the focus.
- [3] SPDL : Turn on/off the spindle.
- [4] CLVA : Turn on/off normal servo of spindle servo.
- [5] Trk. : Turn on/off the tracking servo.
- [6] Sled : Turn on/off the sled servo.
- [7] FCS. Srch : Turn on/off the focus search.
- [8] FCS. OppL : Turn on/off the focus search to another (opposite) layer of designated layer in Disc Type setting. (dual layer disc only)
- [0] : All servo off.
- ▶ Sled FWD (right cursor) : Move the sled forward.
- ◀ Sled REV (left cursor) : Move the sled reverse.
- ▲ Sled FWD (up cursor) : Reset the sled.
- ▼ Sled REV (down cursor) : Limit in the sled.

2-3. Track/Layer Jump

| Track/Layer Jump | | |
|------------------|-------|----------|
| 1. | 1Tj | FWD |
| 2. | 1Tj | REV |
| 3. | 500Tj | Fine FWD |
| 4. | 500Tj | Fine REV |
| 5. | 10kTj | Dirc FWD |
| 6. | 10kTj | Dirc REV |
| 7. | 20kTj | Dirc FWD |
| 8. | 20kTj | Dirc REV |
| 0. All Servo Off | | |
| Exit: RETURN | | |

On this screen, track jump, etc. can be performed. Only for the DVD dual layer disc, the focus jump and layer jump are displayed in the right field

- [1] 1Tj FWD : 1 track jump forward.
- [2] 1Tj REV : 1 track jump reverse.
- [3] 500Tj FWD : 500 track jump (fine search) forward.
- [4] 500Tj REV : 500 track jump (fine search) reverse.
- [5] 10kTj FWD : 10k track jump (direct search) forward.
- [6] 10kTj REV : 10k track jump (direct search) reverse.
- [7] 20kTj FWD : 20k track jump (direct search) forward.
- [8] 20kTj REV : 20k track jump (direct search) reverse.
- [0] : All servo off.

2-4. Non EEPROM Write Adjust

| Non EEPROM Write Adjust | | |
|-------------------------|----------|---------------|
| 1. | Focus | Offset |
| 2. | Focus | Gain |
| 3. | Trk. | Offset Coarse |
| 4. | Trk. | Offset Fine |
| 5. | Trk. | Gain |
| 6. | EQ Boost | |
| 0. All Servo Off | | |
| Exit: RETURN | | |

On this screen, each item can be adjusted manually. Select the desired number [1 "R"] to [6 "R"] from the remote commander, and current setting for the selected item will be displayed, then increase or decrease numeric value with the ◀ "R" key or ▶ "R" key. This value is stored in the EEPROM. If CLV has been applied, the jitter is displayed for reference for the adjustment.

- [1] Focus Offset : Adjusts focus offset.
- [2] Focus Gain : Adjusts focus gain.
- [3] TRK. Offset : Adjusts tracking offset of the RF amp (IC001) side.
- [4] TRK. Offset : Adjusts tracking offset of the DSP (IC509) side.
- [5] TRK. Gain : Adjusts track gain.
- [6] EQ Boost : Adjusts amount of boost of equalizer.
- [0] : All servo off.

2-5. EEPROM Write Adjust

| EEPROM Write Adjust | | |
|---------------------|-------|---------------|
| 1. | Focus | Offset |
| 2. | Focus | Gain |
| 3. | Trk. | Offset Coarse |
| 4. | ----- | |
| 5. | Trk. | Gain |
| 6. | EQ | Boost |
| 0. All Servo Off | | |
| Exit: RETURN | | |

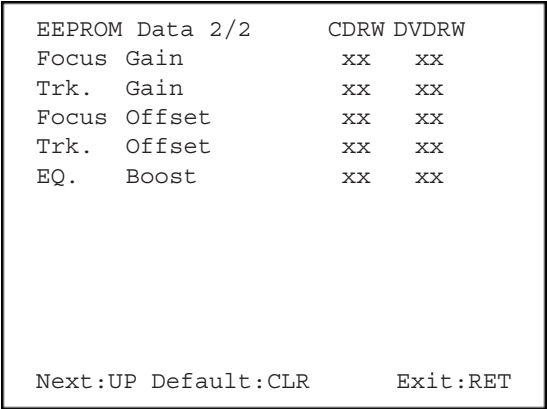
On this screen, each item can be adjusted automatically. Select the desired number [1 "R"] to [6 "R"] from the remote commander, and selected item is adjusted automatically.

- [1] Focus Offset : Adjusts focus offset.
- [2] Focus Gain : Adjusts focus gain.
- [3] TRK. Offset : Adjusts tracking offset of the RF amp (IC001) side.
- [5] TRK. Gain : Adjusts track gain.
- [6] EQ Boost : Adjusts amount of boost of equalizer.
- [0] : All servo off.

2-6. Memory Check

Display images are shown as follows, and all two screens are able to switch by the ▲ "R" key (UP) or ▼ "R" key (DW).

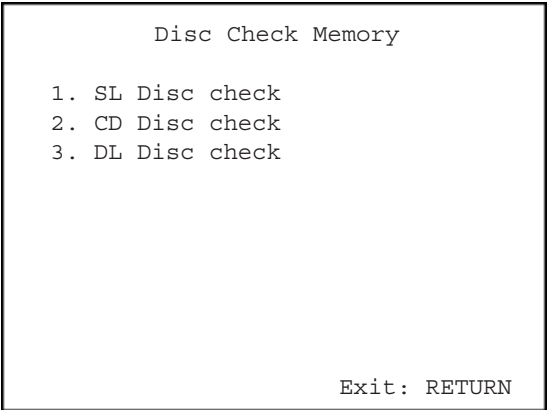
| EEPROM Data | 1/2 | CD | SL | L0 | L1 |
|------------------------------|-----|----|----|----|----|
| Focus Gain | xx | xx | xx | xx | xx |
| Trk. Gain | xx | xx | xx | xx | xx |
| Focus Offset | xx | xx | xx | xx | xx |
| Trk. Offset | xx | xx | xx | xx | xx |
| EQ. Boost | xx | xx | xx | xx | xx |
| PI Level | xx | xx | -- | -- | -- |
| Fcs. Balance | -- | xx | -- | -- | -- |
| Jitter | xx | xx | xx | xx | xx |
| Mirror Time | xx | xx | xx | -- | -- |
| FE Level | -- | xx | -- | -- | -- |
| Traverse Lv1. | -- | xx | -- | -- | -- |
| Next:DW Default:CLR Exit:RET | | | | | |



On this screen, current servo adjusted data stored in the EEPROM are displayed. The adjusted data are initialized by pressing the CLEAR “R” key, but be careful that they are not recoverable after initialization.

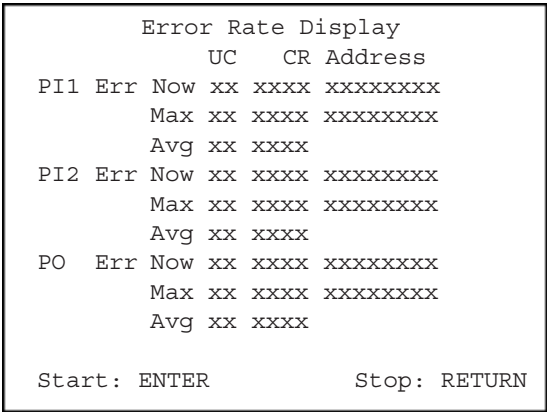
Before clearing the adjusted data, make a note of the set data. This screen will also appear if [0] All is selected in the Drive Auto Adjustment. In this case, default setting cannot be made.

2-7. Disc Check Memory



On this screen, measure the mirror time of chucked disc, and write to the EEPROM.

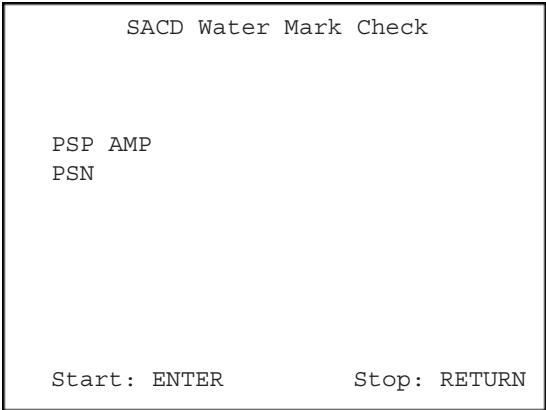
2-8. Error Rate Display



On this screen, measure and display the error rate.

UC : Incorrect value
CR : Correct value
Add: Address

2-9. SACD Water Mark Check

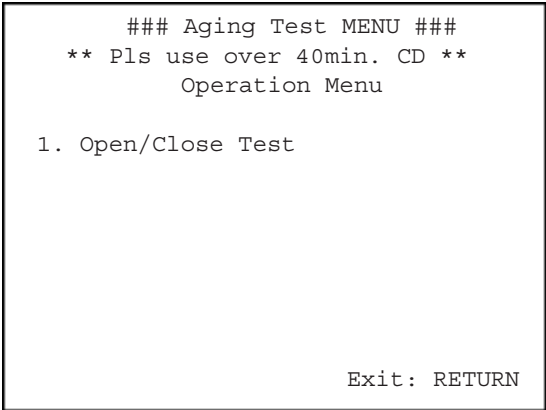


On this screen, measure the PSP AMP value and PSN value of SACD water mark.

3. MECHA AGING

On the Test Mode Menu screen, selecting [3 “R”] displays the aging test menu.

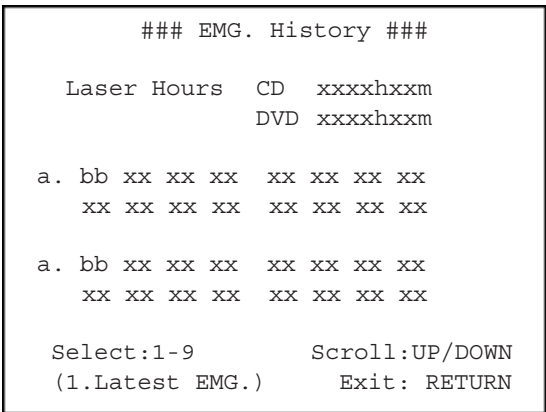
Note: MECHA AGING is not available in this set.



4. EMERGENCY HISTORY

On the Test Mode Menu screen, selecting [4 “R”] displays the information such as servo emergency history.

The history information from last 1 up to 10 can be scrolled with the [▲ “R”] key or [▼ “R”] key. Also, specific information can be displayed by directly entering that number with ten keys.



xxxxhxxm : The laser on total hours. Data below minutes are omitted.

a. : Error number.

bb : Error code.

xx : Not used.

• Clearing History Information

Clearing laser hours:

Press the **DISPLAY "R"** and **CLEAR "R"** keys in this order.
Then both CD and DVD data are cleared.

Clearing emergency history:

Press the **TOP MENU "R"** and **CLEAR "R"** keys in this order.

Initializing set up data:

Press **MENU "R"** and **CLEAR "R"** keys in this order. The data have been initialized when "EEPROM Initialize Finished." message is displayed. The EMG. History screen will be restored soon.

• Code list of Emergency History

- 10: Communication to RF AMP (IC001) failed.
- 11: Each servo for focus, tracking, and spindle is unlocked.
- 12: Check sum error of EEPROM (IC204).
- 14: Communication to servo DSP (IC509) failed, or servo DSP (IC509) is faulty.
- 15: Communication to DVD decoder (IC701) failed, or DVD decoder (IC701) is faulty.
- 16: Communication to DSD decoder (IC801) failed, or DSD decoder (IC801) is faulty.
- 20: Initialization of sled servo failed. It is not placed in the initial position.
- 23: Sled servo operation error.
- 24: Made a request to move the sled servo to wrong position.
- 30: Tracking balance adjustment error.
- 31: Tracking gain adjustment error.
- 33: Focus bias adjustment error.
- 34: Focus gain adjustment error.
- 35: Equalizer adjustment error.
- 40: Focus servo does not operate.
- 41: With a DVD dual layer disc, focus jump failed.
- 50: CLV (spindle) servo does not operate.
- 51: Spindle does not stop.
- 60: Made a request to seek nonexistent address.
- 61: Seek error of retry more than regulated times.
- 70: Control data could not be read.
- 80: Disc reading failed.

5. MECHA ERROR HISTORY

On the Test Mode Menu screen, selecting **5 "R"** displays the information of mechanism deck error history.

The history information from last 1 up to 8 can be scrolled with the **▲ "R"** key or **▼ "R"** key. Also, specific information can be displayed by directly entering that number with ten keys.

| | | | | | | | | | |
|------------------------------|----|----|----|----|----|----|----|----|----|
| ### Mecha Error History ### | | | | | | | | | |
| 1. | aa | bb | cc | xx | xx | xx | xx | xx | xx |
| 2. | aa | bb | cc | xx | xx | xx | xx | xx | xx |
| 3. | aa | bb | cc | xx | xx | xx | xx | xx | xx |
| 4. | aa | bb | cc | xx | xx | xx | xx | xx | xx |
| 5. | aa | bb | cc | xx | xx | xx | xx | xx | xx |
| 6. | aa | bb | cc | xx | xx | xx | xx | xx | xx |
| 7. | aa | bb | cc | xx | xx | xx | xx | xx | xx |
| 8. | aa | bb | cc | xx | xx | xx | xx | xx | xx |
| | | | | | | | | | |
| Scroll:UP/DOWN | | | | | | | | | |
| (1.Latest Err.) Exit: RETURN | | | | | | | | | |

aa: Initialization is completed or not.

FF : Complete.

other number : Not complete.

bb: Operating status of mechanism deck at an error occurred.

(lod sq jcp)

00 : Initializing.

10 to 15 : Open operating.

16 to 19 : Kicking cause open failed.

1A to 1F : Open operating.

20 to 27 : Complete the open operation.

28 : No disc and complete the open operation.

29 to 2F : Complete the open operation.

30 to 3F : Close requesting.

40 to 4F : Open requesting.

50 to 5F : Close operating.

60 to 6F : Complete the chucking operation.

80 to 8F : Complete the release operation.

(BU is home position)

90 to 9F : BU down operating.

A0 to AF : Opening/closing the shutter. Or stationary state in open/close the shutter is enablement.

B0 to BF : BU up requesting.

C0 to CF : BU down requesting.

D0 to DF : BU upping.

E0 to EF : No disc checking in disc loading.

cc: Operating status of mechanism deck at an error occurred.

(lod oq jcp)

00 : Complete the operation.

10 to 1F : Open operating.

20 to 2F : Close operating.

30 to 3F : Release operating.

60 to 6F : Chucking operating.

70 to 7F : Kicking operating.

80 to 8F : Returning the BU to home position. (after kicking)

6.VERSION INFORMATION

On the Test Mode Menu screen, selecting 6 “R” displays the ROM version and region code.
The parenthesized hexadecimal number in version field is checksum value of ROM.

```
## Version Information ##

IF con.      Ver.x. xx

SYScon.      Ver.x. xx (xxxx)
  Model      DAV-BC150
  Region      0x
  Config      xxxxxxxx
              xxxxxxxx

Front End Ver.x.xx

Exit: RETURN
```

IF con. : The version of system controller (IC509).
SYScon. : The version of DVD system processor (IC207).
Front End : The version of mechanism controller (IC901).

7.VIDEO LEVEL ADJUSTMENT

On the Test Mode Menu screen, selecting 7 “R” displays color bars for video level adjustment. During display of color bars, OSD disappears but the menu screen will be restored if pressing the RETURN ⏏ “R” key.

SECTION 2 ELECTRICAL ADJUSTMENT

DVD SECTION

AUTO SERVO ADJUSTMENT

After parts related to the servo circuit (RF amplifier (IC001), DSP (IC509), motor driver (IC501), EEPROM (IC903) so on) are replaced, re-adjusting the servo circuit is necessary. Select "ALL" at "1. DRIVE AUTO ADJUSTMENT" (Refer to page 4 in TEST MODE) and adjust DVD-SL (single layer), CD and DVD-DL (dual layer).

[TEST DISC LIST]

Use the following test disc on test mode.

TDV-520CSO (DVD-SL): PART No. J-2501-236-A

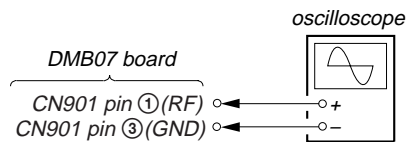
LUV-P01 (CD): PART No. 4-999-032-01

TDV-540C (DVD-DL): PART No. J-2501-235-A

Note: Do not use exiting test disc for DVD.

[RFMON Level Check]

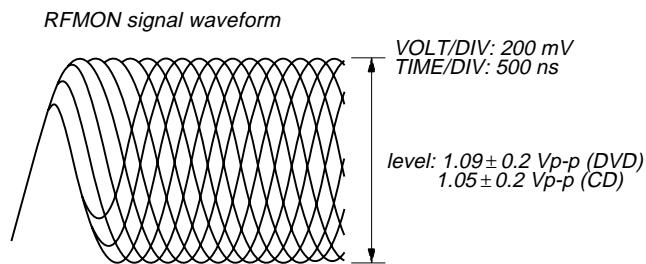
Connection:



Procedure:

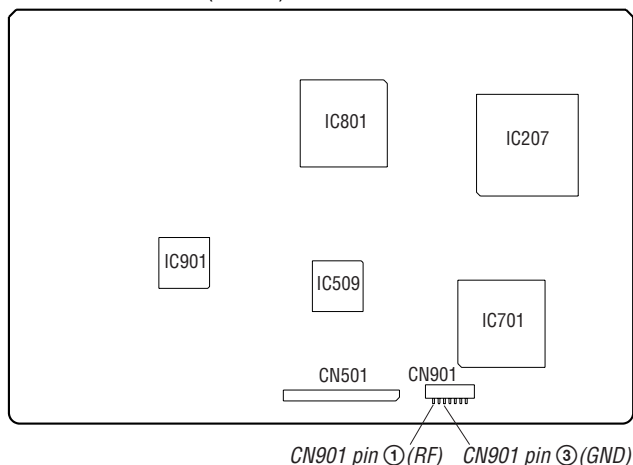
1. Connect an oscilloscope to CN901 pin ① (RF) and CN901 pin ③ (GND) on the SUB board.
2. Turn the power on.
3. Set the test disc (DVD: TDV-520CSO, CD: LUV-P01) on the tray and press button to playback.
4. Confirm that oscilloscope waveform is clear and check RFMON signal level is correct or not.

Note: A clear RFMON signal waveform means that the shape "∩" can be clearly distinguished at the center of the waveform.



Checking Location: DMB07 board (Side A)

[DMB07 BOARD] (Side A)



MEMO

HCD-BC150/BC250

SONY®

US Model
Canadian Model

SERVICE MANUAL

Ver 1.2 2004.07

SUPPLEMENT-2

Subject: New type models

Note 1: New type models start with the following serial numbers.

| MODEL | | Initial Serial No. |
|-----------|----------|--------------------|
| DAV-BC150 | US | 8390001 |
| | Canadian | 4310001 |
| DAV-BC250 | US | 8310001 |
| | Canadian | 4310001 |

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SECTION 1

SERVICING NOTE

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.





LASER DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the "S curve check" in "CD section adjustment" and check that the S curve waveform is output several times.



DISC SLOT LOCK


The disc slot lock function for the antitheft of an demonstration disc in the store is equipped.



Setting Procedure :


1. Press the  button to turn the set on.
2. Press the  button to set DVD function.
3. Insert a disc.
4. Press the  stick and the  (DISC1) button simultaneously for five seconds.
5. The message "LOCKED" is displayed and the slot is locked.



Releasing Procedure :

1. Press the  stick and the  (DISC1) button simultaneously for five seconds again.
2. The message "UNLOCKED" is displayed and the slot is unlocked.

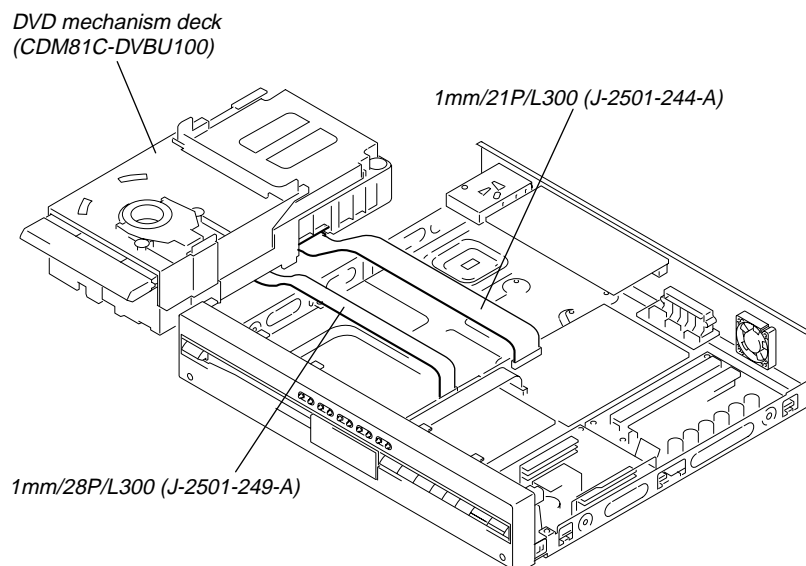
Note: When "LOCKED" is displayed, the slot lock is not released by turning power on/off with the  button.

Note 1: Regarding the notification symbol "R"
Because the number of the operating buttons of this product are limited, some operations require use of the operating buttons of the remote commander (RM-SS250 supplied with the product). When a specific operation requires use of the operating buttons of the remote commander (RM-SS250), "R" is added to the specific operating procedure in this manual. Example  "MENU/NO" "R" The  button of remote commander.

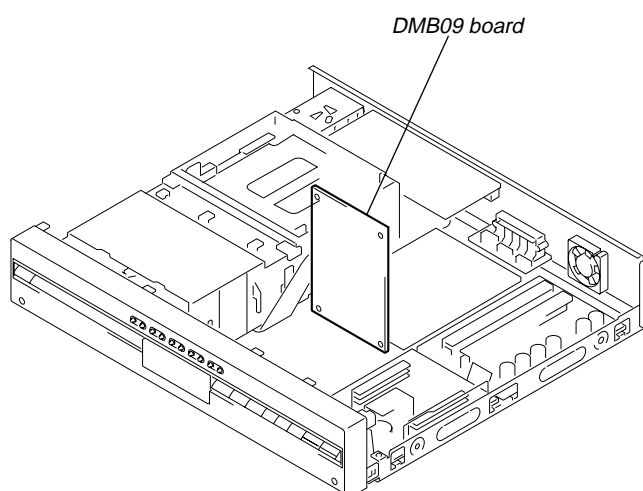
Note 2: Incorrect operations may be performed if the test mode is not entered properly.
In this case, press the  button to turn the power off, and retry to enter the test mode.

Note 3: If the disc tray does not open and the message "LOCKED" appears, press the  stick and the  (DISC1) button simultaneously for 5 seconds or longer.
Then remove your fingers from the above stick and the button. The message "UNLOCKED" appears for 2 seconds and the disc tray opens.

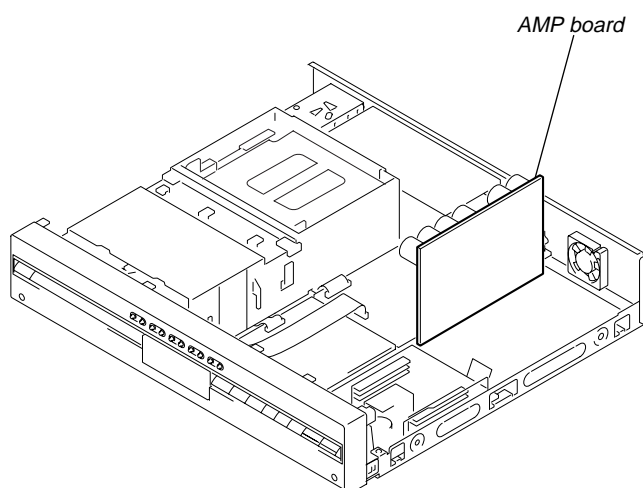
• SERVICE POSITION-1 (DVD MECHANISM DECK)



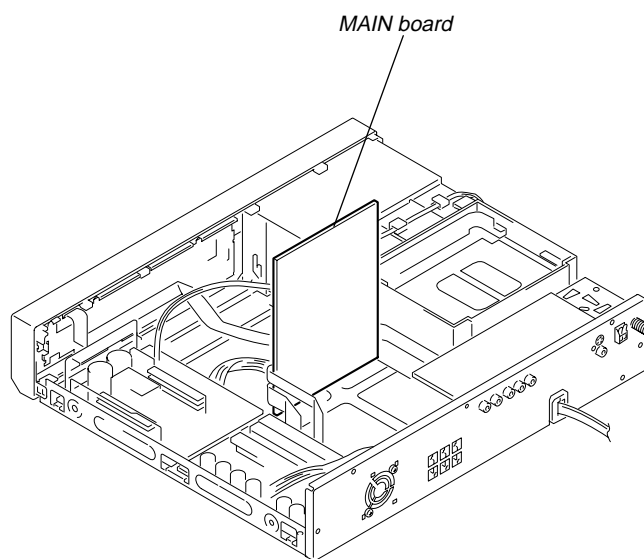
- SERVICE POSITION-2 (DMB09 BOARD)



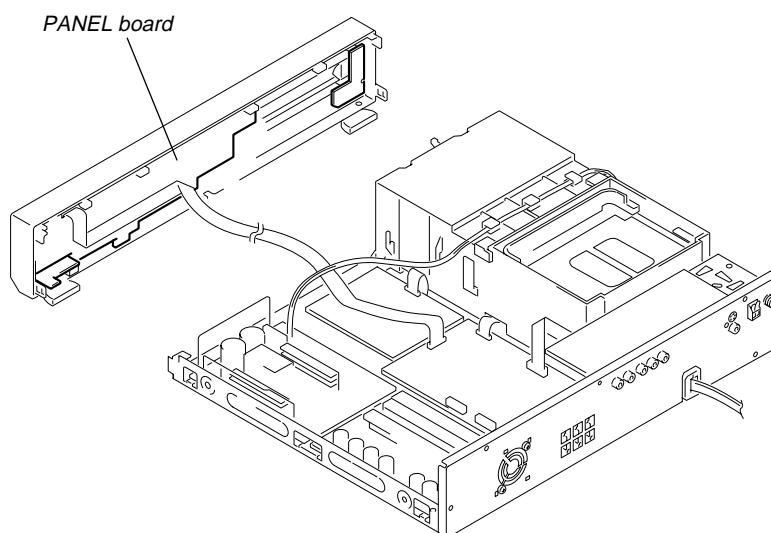
- SERVICE POSITION-3 (AMP BOARD)



• SERVICE POSITION-4 (MAIN BOARD)



• SERVICE POSITION-5 (PANEL BOARD)

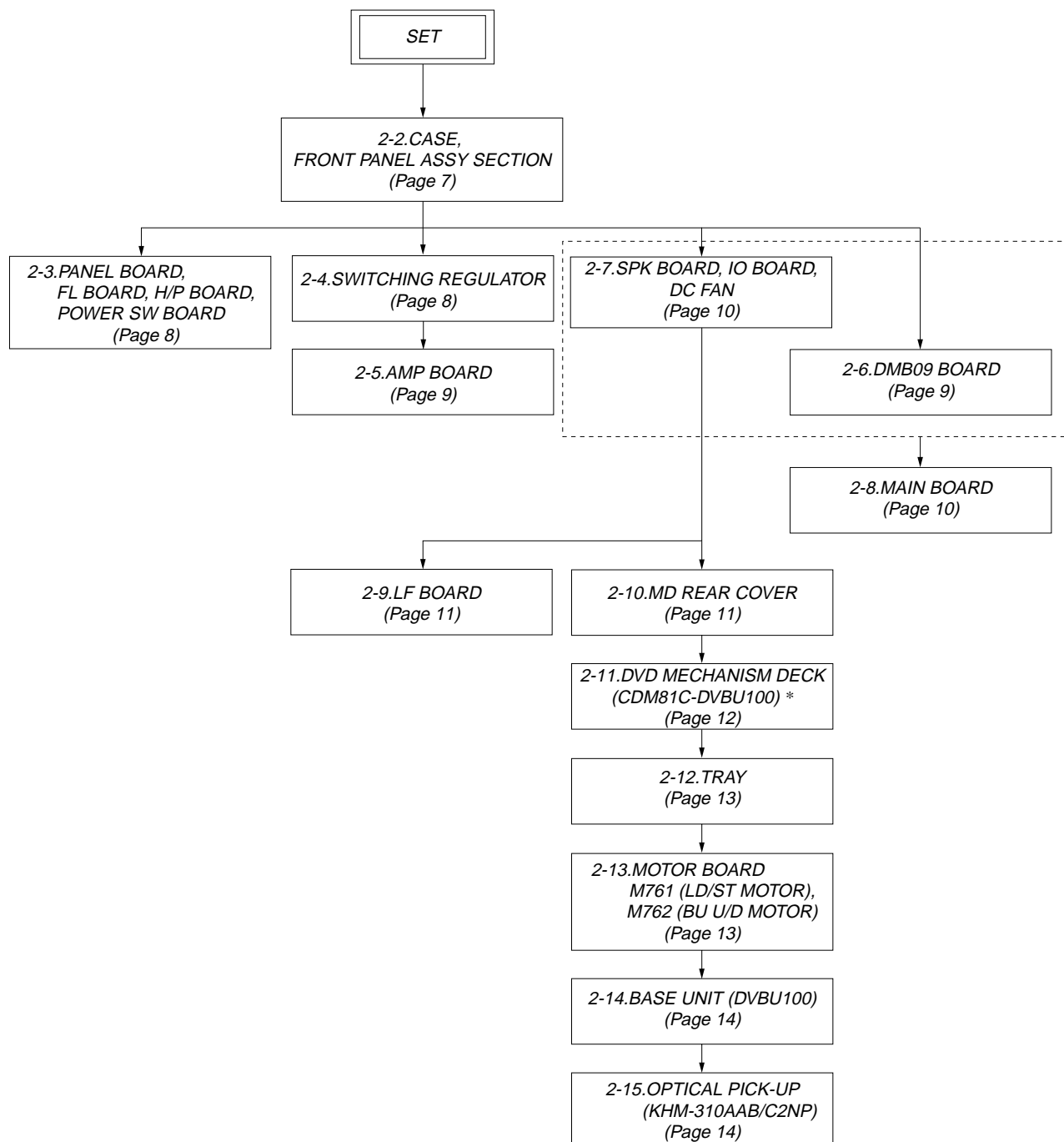


SECTION 2 DISASSEMBLY

2-1. DISASSEMBLY FLOW

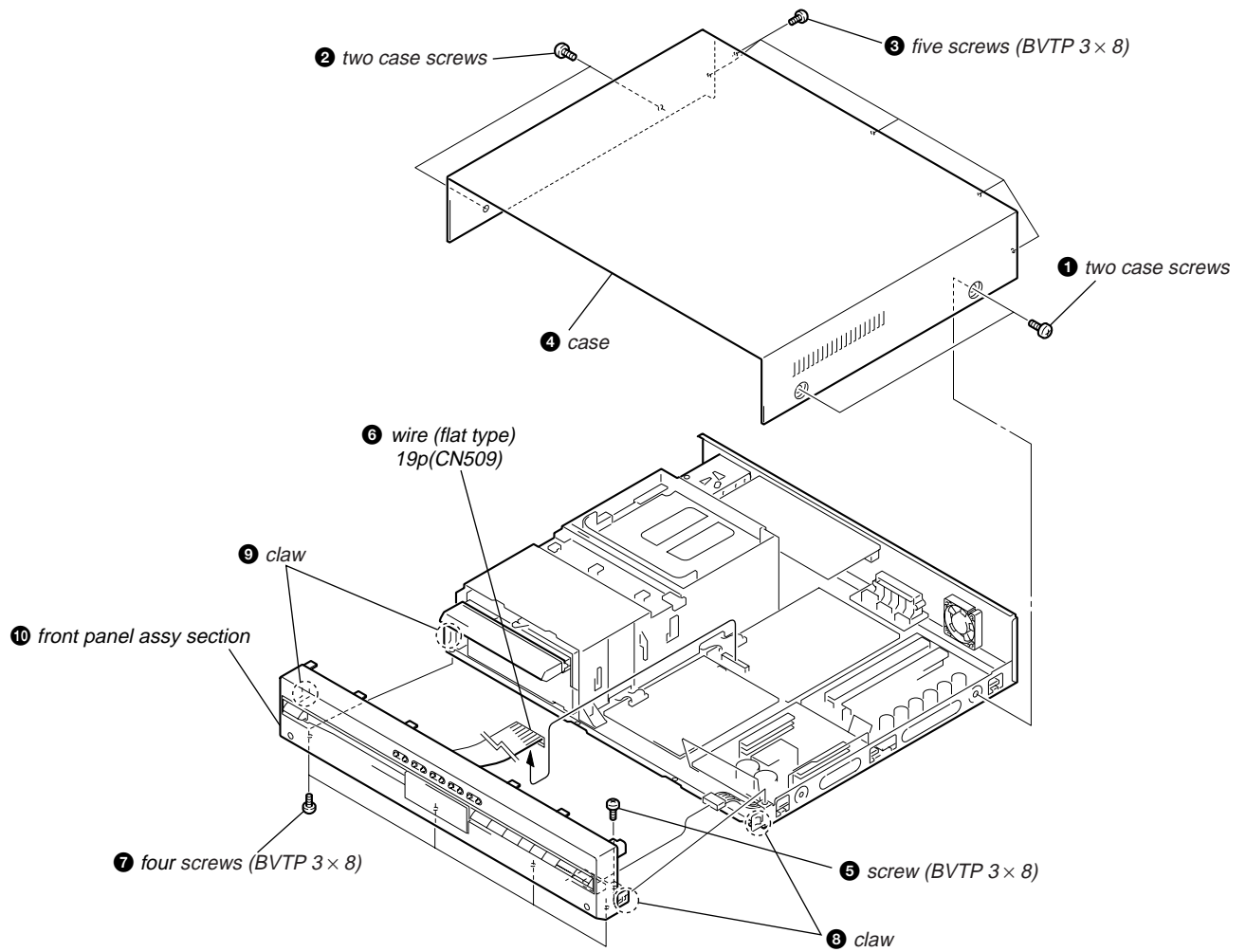
- This set can be disassembled in the order shown below.
- The dotted square with arrow (□→) prompts you to move to the next job when all of the works within the dotted square (□) are completed.

* : In order to remove DVD MECHANISM DECK (CDM81C-DVBU100), please remove DMB09 BOARD beforehand.

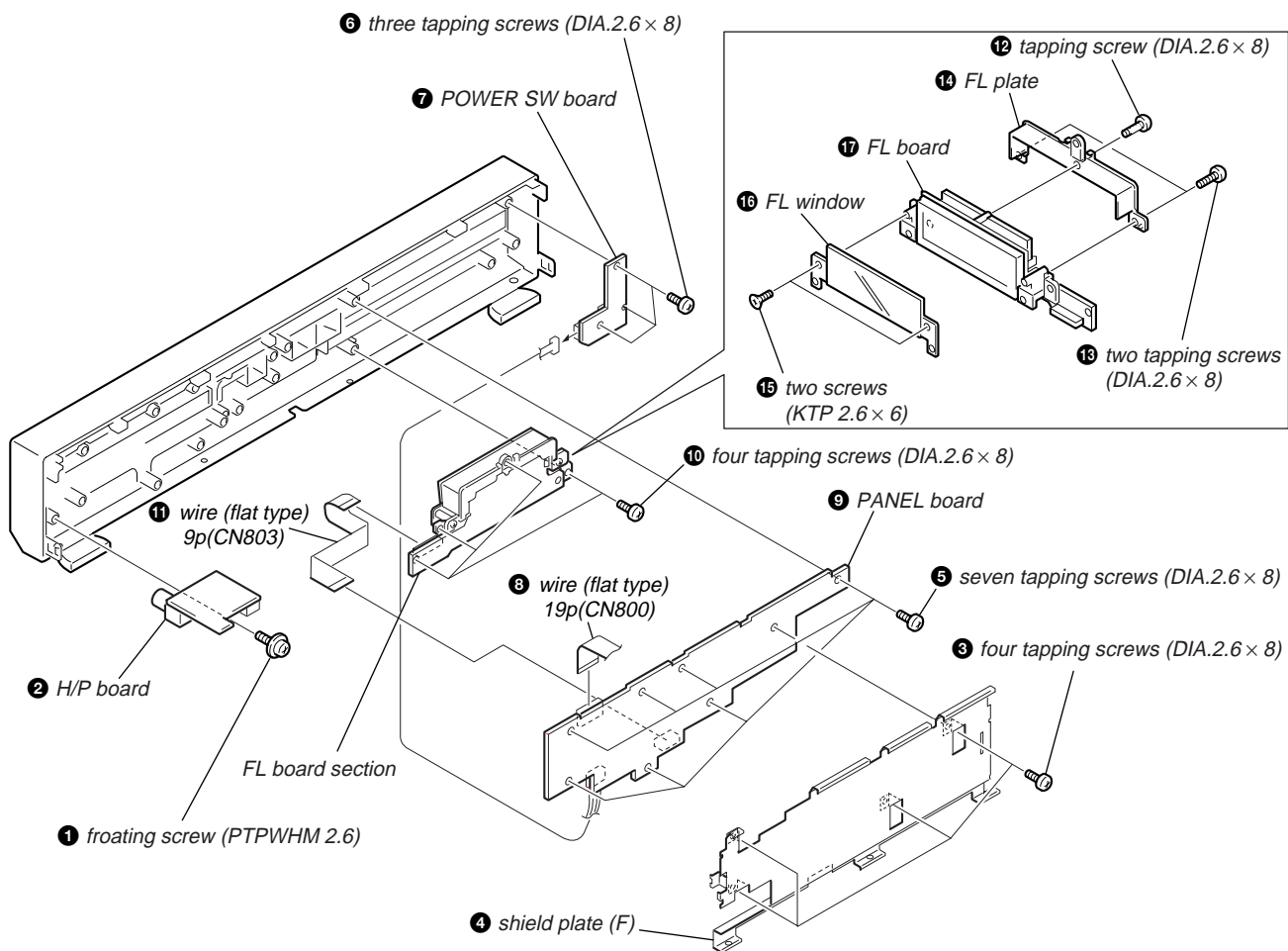


Note: Follow the disassembly procedure in the numerical order given.

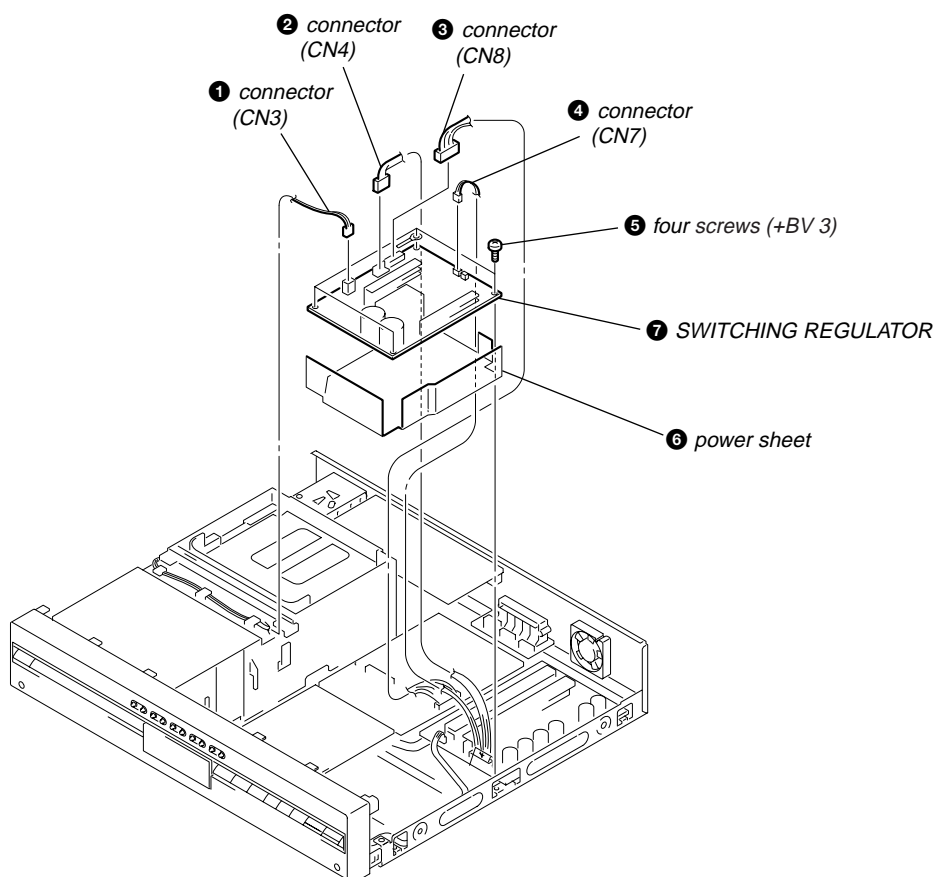
2-2. CASE, FRONT PANEL ASSY SECTION



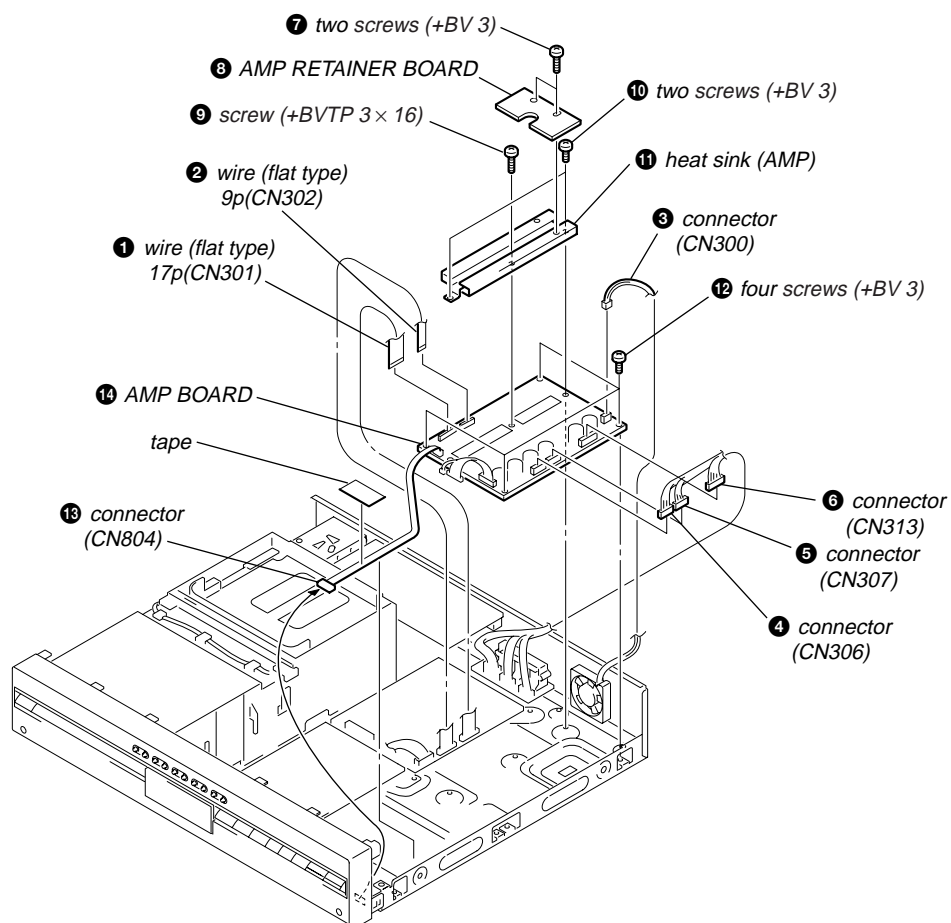
2-3. PANEL BOARD, FL BOARD, H/P BOARD, POWER SW BOARD



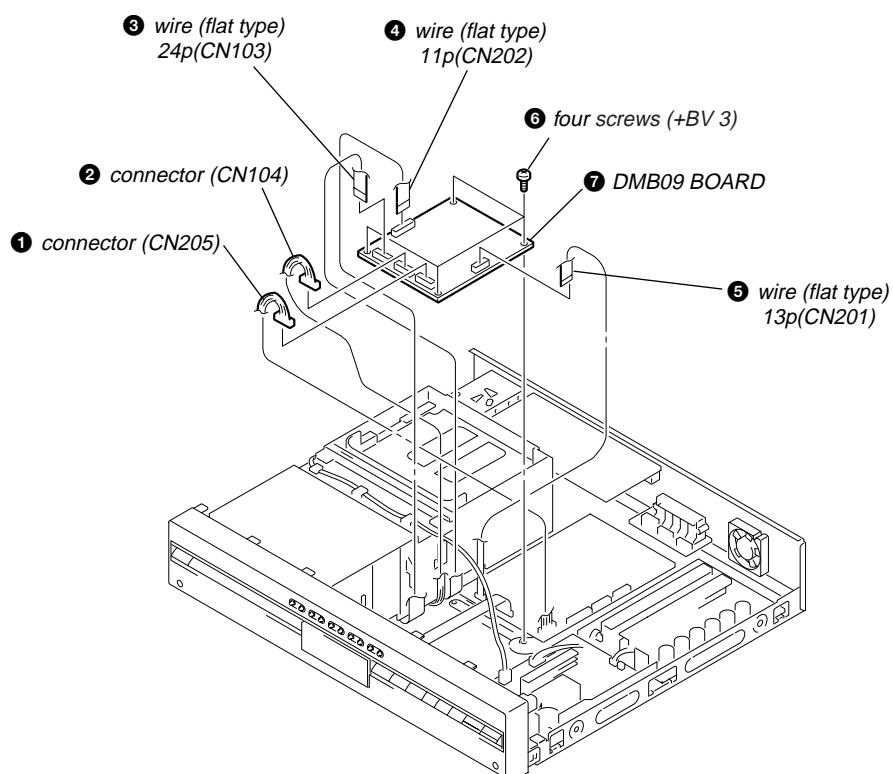
2-4. SWITCHING REGULATOR



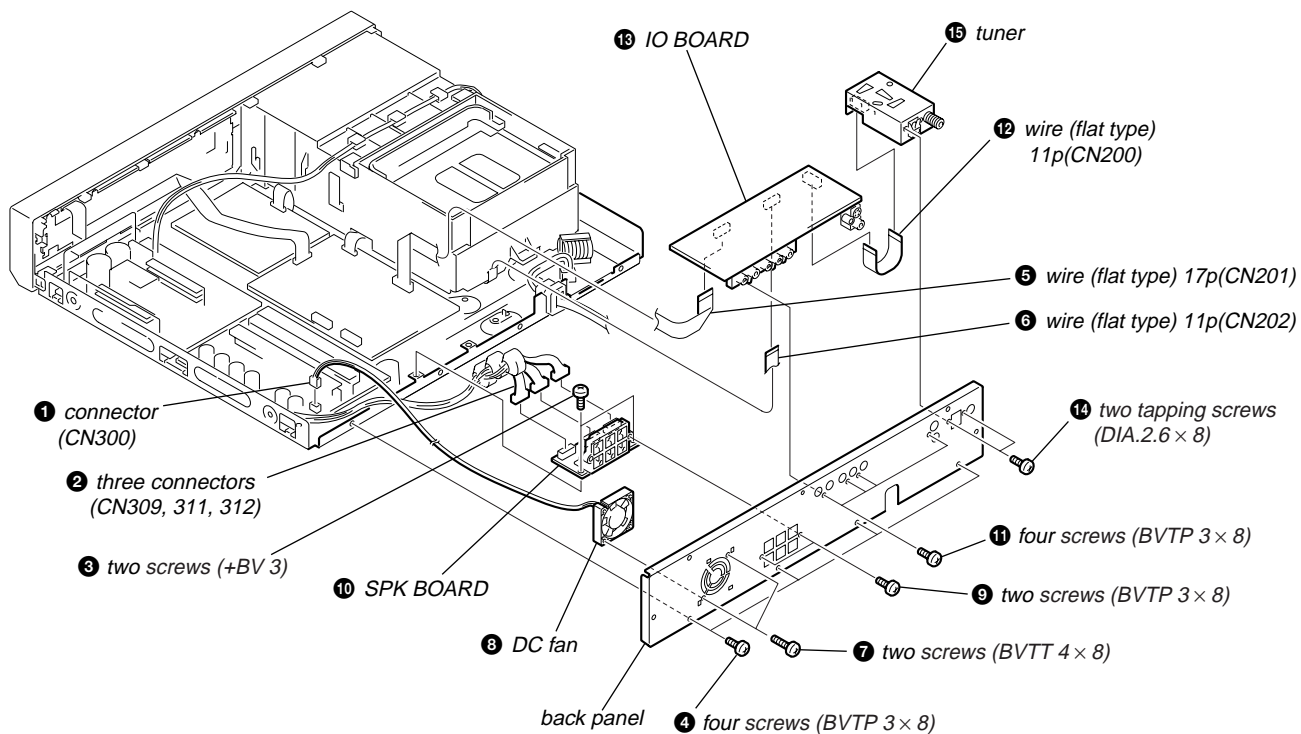
2-5. AMP BOARD



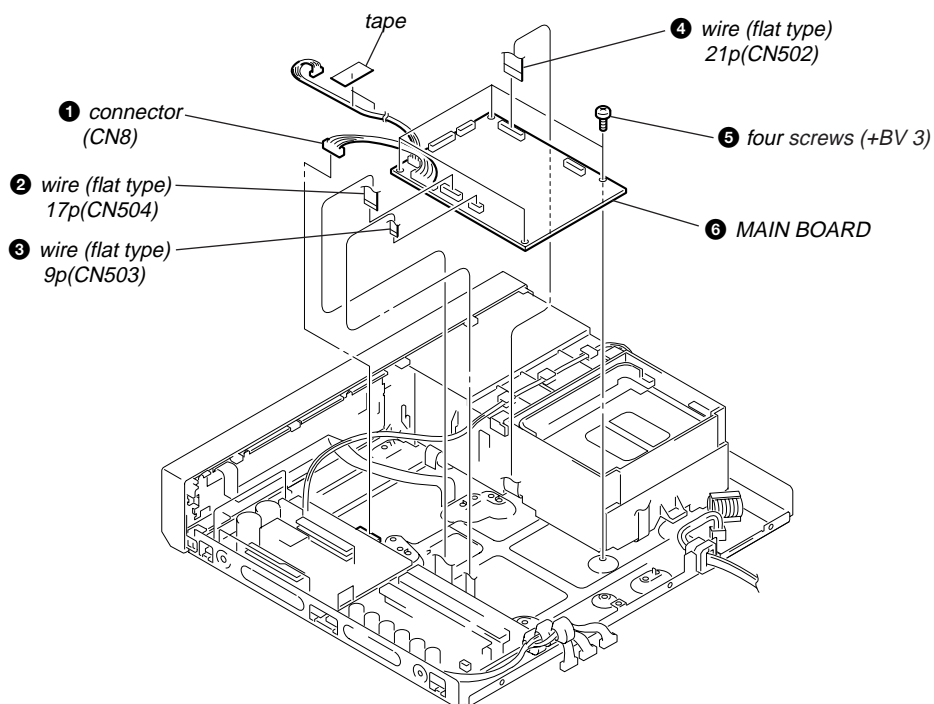
2-6. DMB09 BOARD



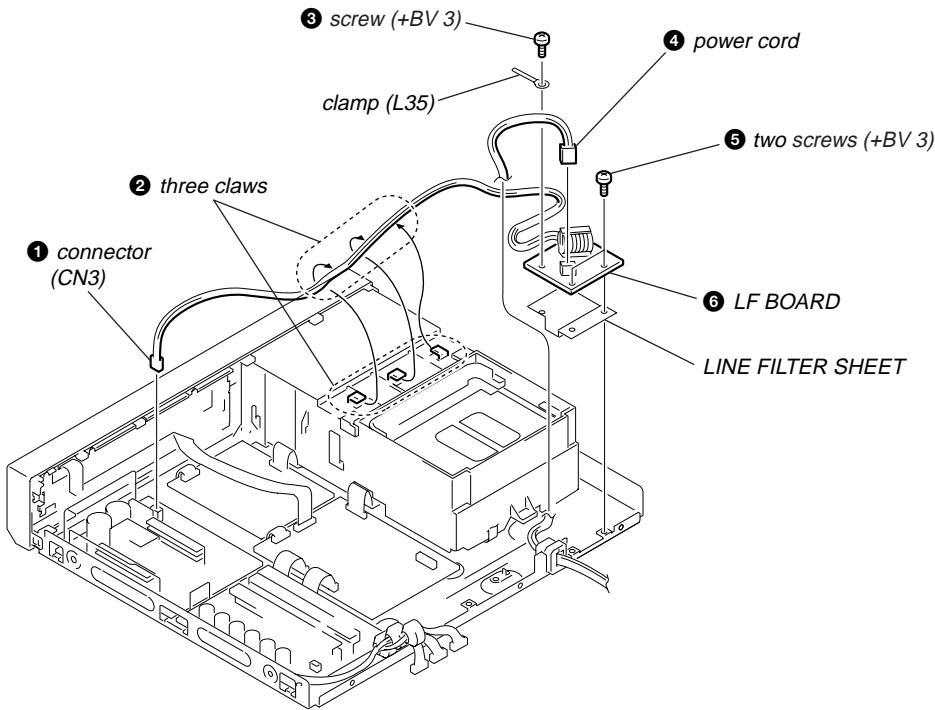
2-7. SPK BOARD, IO BOARD, DC FAN



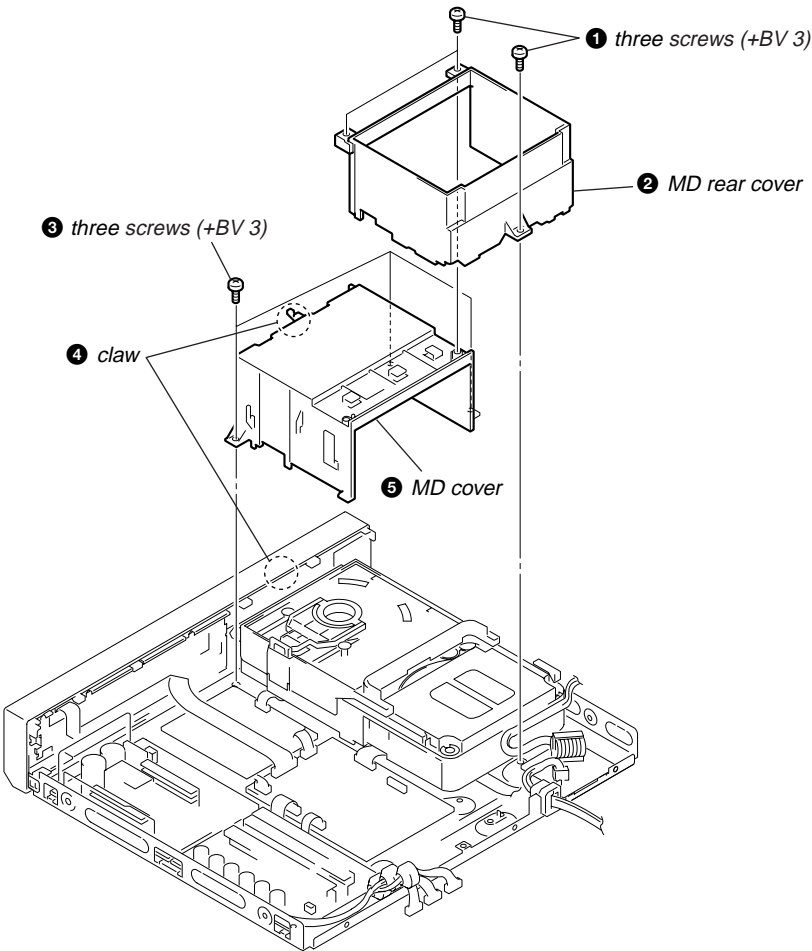
2-8. MAIN BOARD



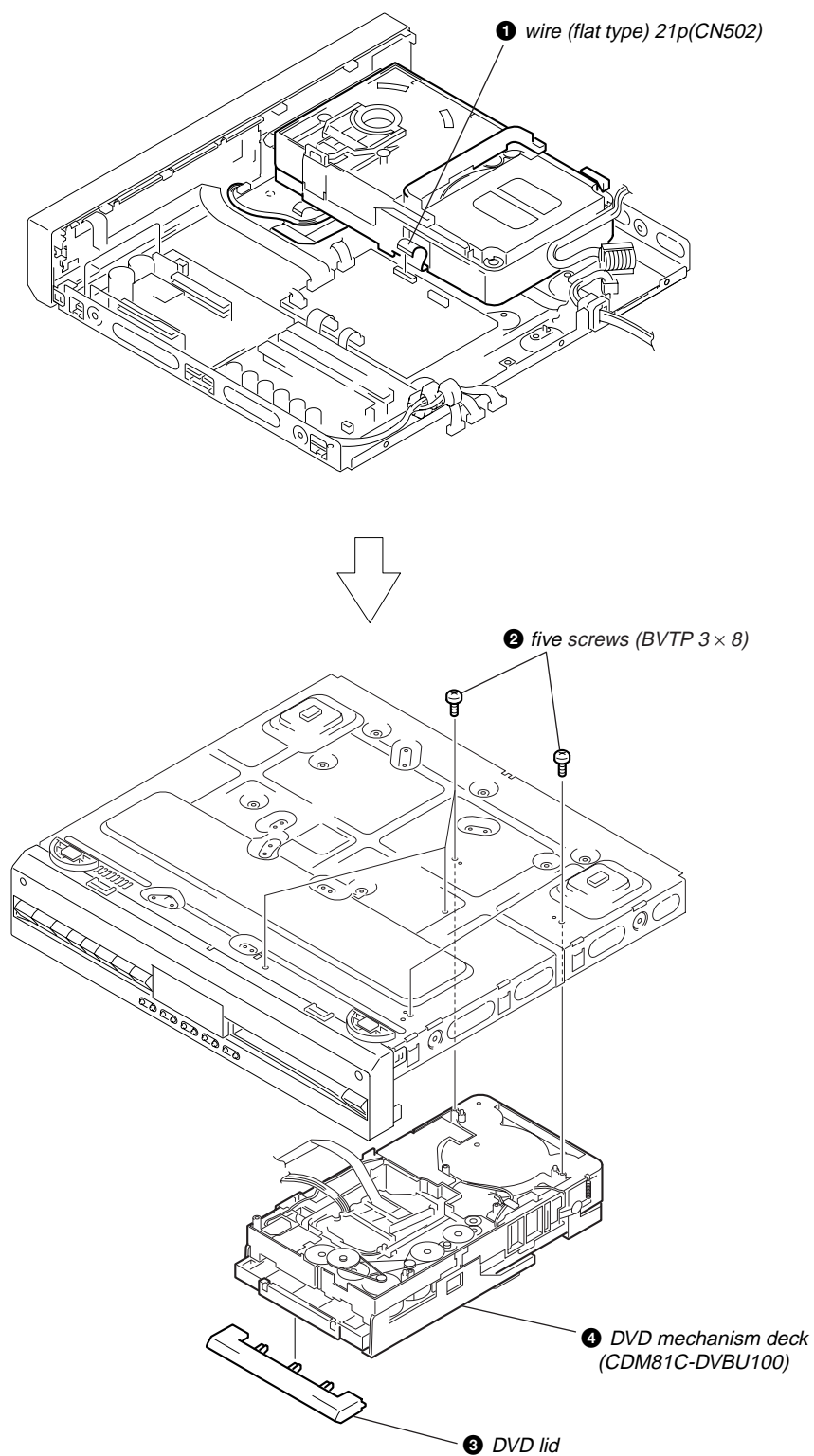
2-9. LF BOARD



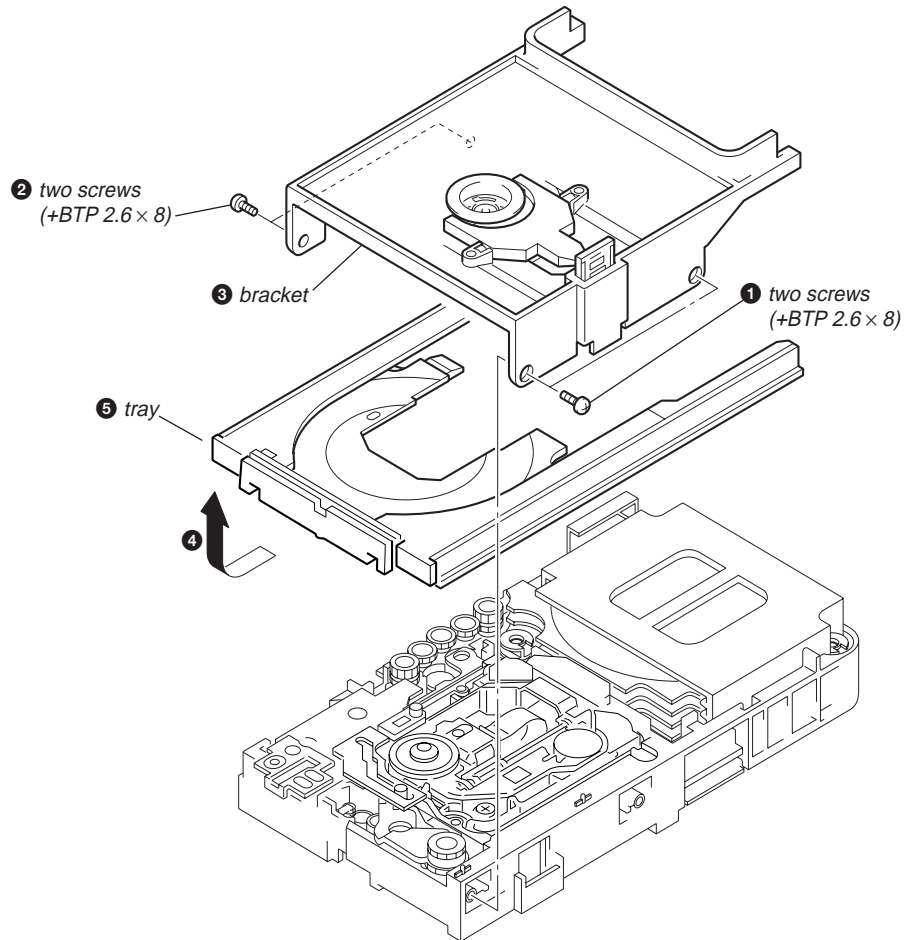
2-10. MD REAR COVER



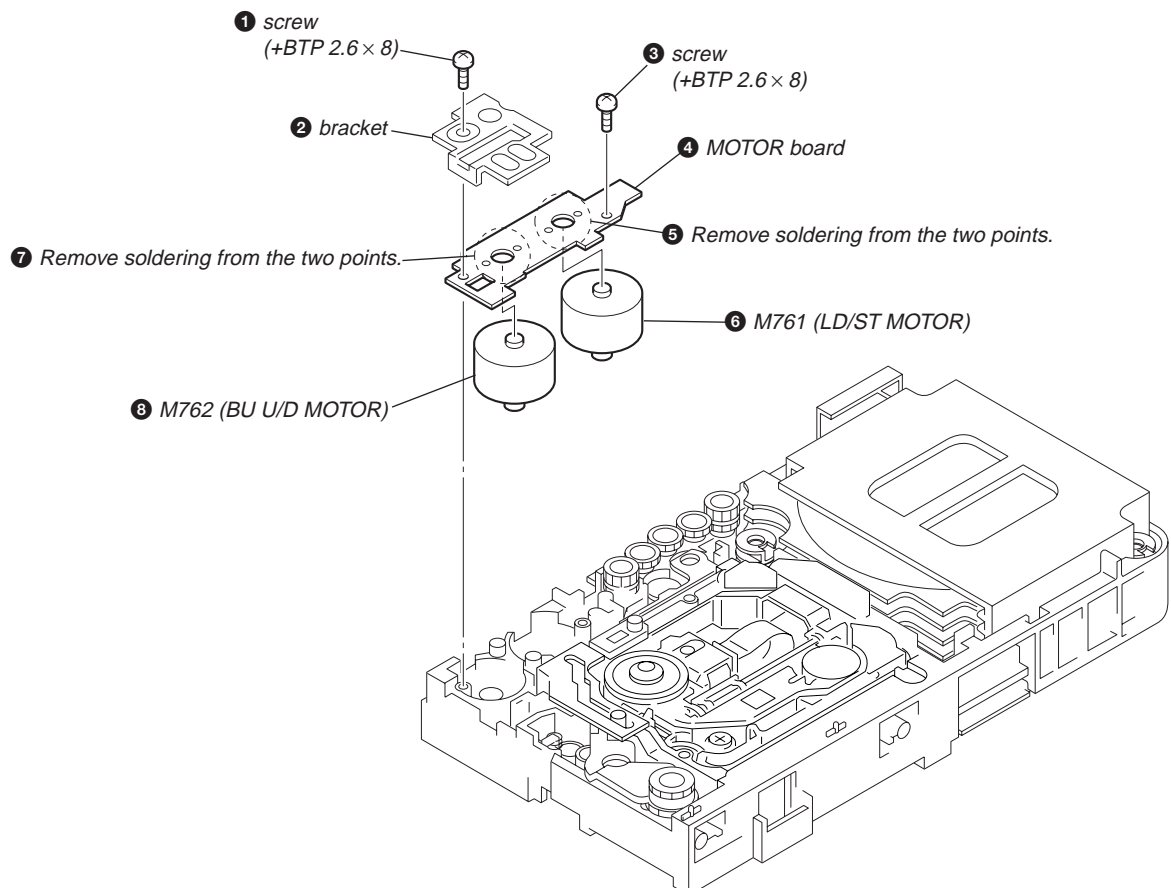
2-11. DVD MECHANISM DECK (CDM81C-DVBU100)



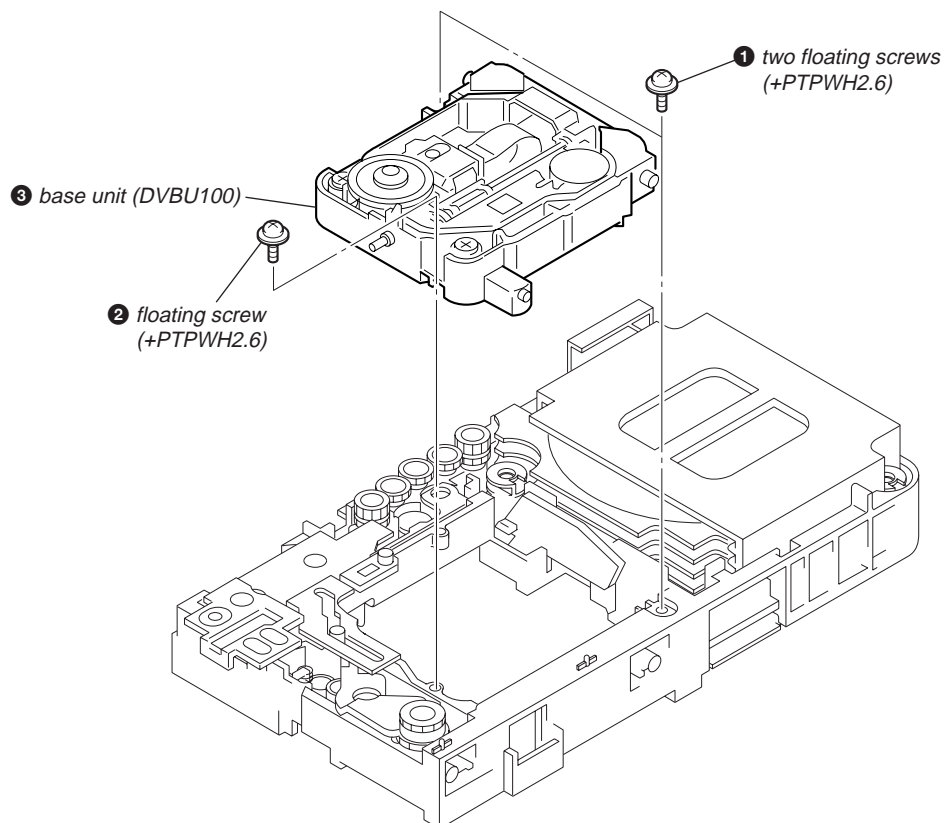
2-12. TRAY



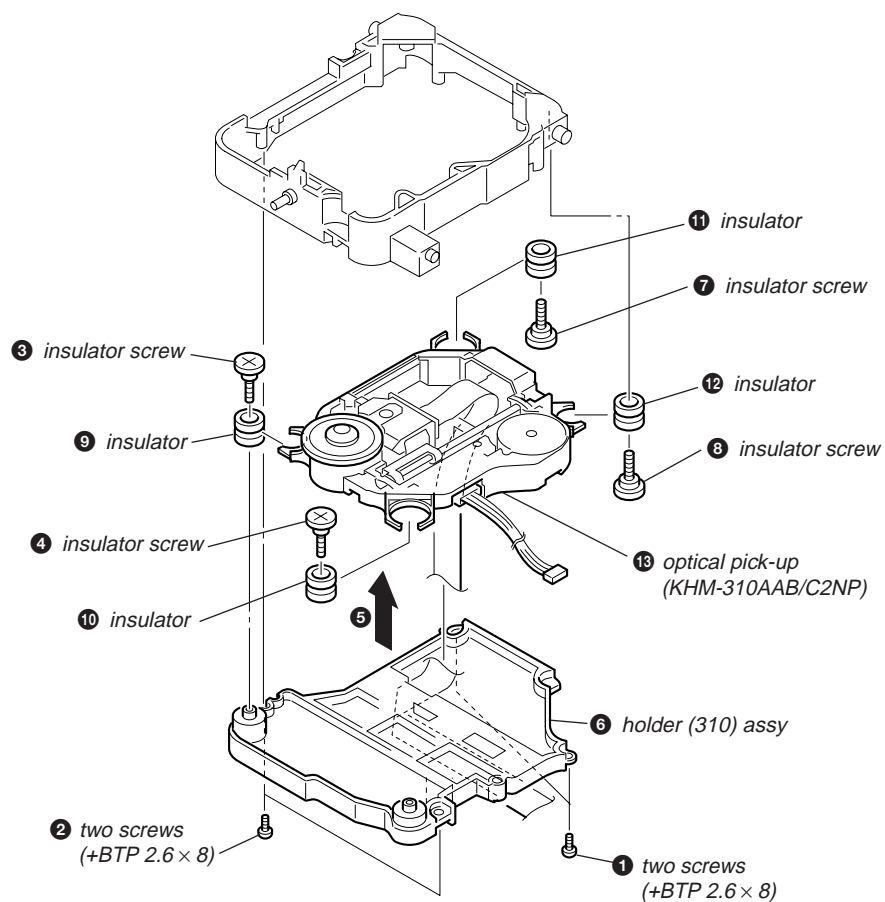
2-13. MOTOR BOARD, M761 (LD/ST MOTOR), M762 (BU U/D MOTOR)



2-14. BASE UNIT (DVBU100)



2-15. OPTICAL PICK-UP (KHM-310AAB/C2NP)



SECTION 3 TEST MODE

- Note 1:** Regarding the notification symbol “R”
Because the number of the operating buttons of this product are limited, some operations require use of the operating buttons of the remote commander (RM-SS250 supplied with the product). When a specific operation requires use of the operating buttons of the remote commander (RM-SS250), “R” is added to the specific operating procedure in this manual. Example **[MENU/NO “R”]** The **[MENU/NO]** button of remote commander.
- Note 2:** Incorrect operations may be performed if the test mode is not entered properly.
In this case, press the **[I/⏻]** button to turn the power off, and retry to enter the test mode.

1. Cold Reset

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customers.

Procedure:

- Press the **[I/⏻]** button to turn the power on.
- Press three buttons **[▶▶]**, **[▷]** and **[⏏]** (DISC1) simultaneously.
- When this button is operated, display as “Cold RESET” for a while and all of the settings are reset.

2. Panel Test Mode

- This mode is used to check the software version, LCD, LED and keyboard.

2-1. DVD LED Test Mode

Procedure:

- Press the **[I/⏻]** button to turn on the power.
- Press three buttons **[VOLUME -]**, **[◀◀]** and **[⏏]** (DISC1) simultaneously.
- When the display LED test mode is activated, all segments are turned on.
- To exit from this mode, press the **[I/⏻]** button.

2-2. Version Test Mode

Procedure:

- Press the **[I/⏻]** button to turn the power on.
- To enter the version test mode, press three buttons **[VOLUME -]**, **[VOLUME +]** and **[⏏]** (DISC1) simultaneously.
- Whenever press the **[▶▶]** button, the version is displayed in order of STR and DVD.
- To exit from this mode, press the **[I/⏻]** button.

2-3. Key Test Mode

Procedure:

- Press the **[I/⏻]** button to turn the power on.
- Press three buttons **[VOLUME -]**, **[VOLUME +]** and the **[FUNCTION]** simultaneously.
- To enter the KEY test mode, the fluorescent indicator displays “KEY 0”. Each time a button is pressed, “KEY” value increases. However, once a button is pressed, it is no longer taken into account. When all keys are pressed correctly, “KEY 19” is displayed.
- To exit from this mode, pull out the AC plug.

3. Disc Tray Lock

The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Setting Procedure :

- Press the **[I/⏻]** button to turn the set on.
- Press the **[FUNCTION]** button to set DVD function.
- Insert a disc.
- Press the **[■]** button and the **[⏏]** (DISC1) button simultaneously for five seconds.
- The message “LOCKED” is displayed and the tray is locked.

Releasing Procedure :

- Press the **[■]** button and the **[⏏]** (DISC1) button simultaneously for five seconds. again.
- The message “UNLOCKED” is displayed and the tray is unlocked.

Note: When “LOCKED” is displayed, the slot lock is not released by turning power on/off with the **[I/⏻]** button.

4. DVD Ship Mode

- Use this mode when returning the set to the customer after repair.

Procedure:

- Press the **[I/⏻]** button to turn the set on.
- Press the **[FUNCTION]** button to set the function “DVD”.
- Press three buttons **[◀◀]**, **[⏏]** (DISC1) and **[▶▶]** simultaneously.
- After a message “MECH LOCK” is displayed on the fluorescent indicator tube, pull out the AC plug.
- To exit from this mode, press the **[I/⏻]** button to turn the set on.

5. DVD Debug In Mode

Procedure:

- Press the **[I/⏻]** button to turn the set on.
- Press the **[FUNCTION]** button to set the function “DVD”.
- Press the three buttons **[VOLUME +]**, **[⏏]** (DISC1) and **[▶▶]** simultaneously.
- To exit from this mode, press the **[I/⏻]** button to turn the set on.




DVD SECTION

3-1. GENERAL DESCRIPTION

The Mirror Time and IOP measurement allows you to make diagnosis and adjustment simply by using the remote commander and monitor TV. The instructions, diagnosis results, etc. are given on the on screen display (OSD).

The Mirror Time and IOP measurement is required is such events where servicing a DVD-Player includes changing the Base Unit (BU). For each new BU to be used with a certain MV-044 board, Mirror Time and IOP measurement need to be carried out.


3-2. STARTING TEST MODE

Press three buttons ,  (DISC1) and  simultaneously with the DVD player in standby mode. The Test Mode starts, then the menu shown below will be displayed on the TV screen.


Remocon Diagnosis Menu

0. External Chip Check
1. Servo Parameter Check
2. Drive Manual Operation
3. Emergency History
4. Version Information
5. Video Level Adjustment

Model Name : DPX-xxxx_xx
IF-con : Ver. x.xxx (xxxx)

The menu above is the Remocon Diagnosis Menu screen which consists of six main function. At the bottom of the menu screen, the model name and IF-con version. To enter Mirror Time Adjustment menu, press button  on the remote commander to enter Drive Manual Operation menu. To exit from the Test Mode, press the power button on the remote commander.


3-3. DRIVE MANUAL OPERATION

The Drive Manual Operation menu consists of five main function. By pressing  on the remote commander in the Remocon Diagnosis Menu, the screen will appear as below.

Drive Manual Operation

1. Servo Control
2. Track/Layer Jump
3. Manual Adjustment
4. Mecha Test Mode
5. Mirr Time Adjust
0. Return to Top Menu

3-4. MIRROR TIME ADJUSTMENT

To enter Mirror Time Adjustment, press  on the remote commander. The screen will appear as below.

Mirr time Adjust Menu

1. CD MIRR time Check:
2. DVD MIRR time Check:
3. Threshold:
4. Save to EEPROM
5. Default set MIRR time

[Open] Tray open [Close] Tray close
[0] Return to previous menu

There are five main commands in the Mirr time Adjust menu as shown in the figure above. The functions of each command are described in the following page.

1. CD Mirr time Check

This command checks the Mirror time value for CD disc.

2. DVD Mirr time Check

This command checks the Mirror time value for DVD disc.

3. Threshold

This command displays the threshold value between CD and DVD mirror time.

4. Save to EEPROM

This command saves an adjusted mirror time value to the EEPROM.




5. Default set MIRR time

This command will set CD and DVD mirror time to firmware default value.

[Open] / [Close]
Pressing the Open / Close button controls the tray for disc change during mirror time adjustment.
[0] Return to previous menu
Press [0] button to return to previous menu.

3-4-1. EXECUTING MIRROR TIME ADJUSTMENT

In order to execute mirror time adjustment, the following standard procedures must be followed.

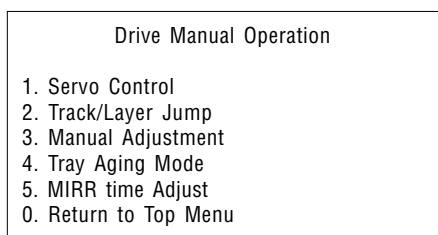
- (1) In standby mode, press three buttons ,  (DISC1) and  simultaneously.
- (2) Select “2. Drive Manual Operation”.

Remocon Diagnosis Menu

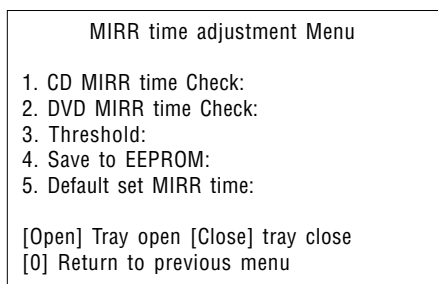
0. External Chip Check
1. Servo Parameter Check
2. Drive Manual Operation
3. Emergency History Check
4. Version information
5. Video Level Adjustment

Model : DPX-xxxx_xx
IF-con : Ver. x.xxx (xxxx)
Syscon : Ver. x.xxx

- (3) Select "5. MIRR time Adjust".

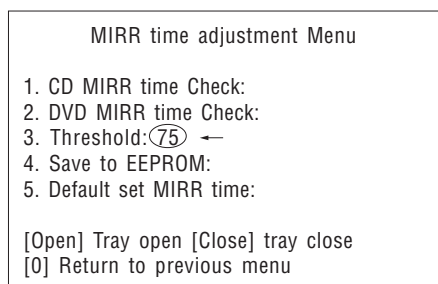


- (4) Select "5. Default set MIRR time".



- (5) Select "3. Threshold".

- (6) Confirm the number. If it is 75, go to next step. If it is any other value, return to step 4.



- (7) Push "Open/Close" key to eject tray.

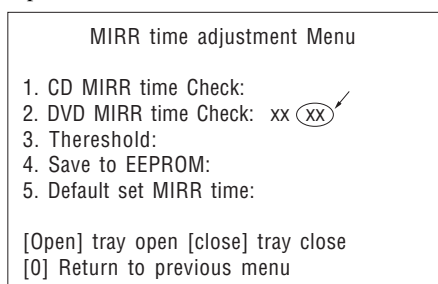
- (8) Insert Test Disc HLX-504 into tray.

- (9) Push "Open/Close" key to close tray.

- (10) Push "2. DVD MIRR time Check".

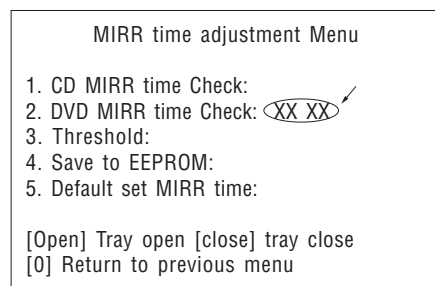
- (11) Wait for HEX number to display.

- (12) Confirm the number, if XX is 28 ~ 70, proceed with next step. If no, return to 8.



- (13) Push "4. Save to EEPROM".

- (14) Confirm the same values are displayed. If it is not same, return to step 7.



- (15) Push "Open/Close" key to eject tray.

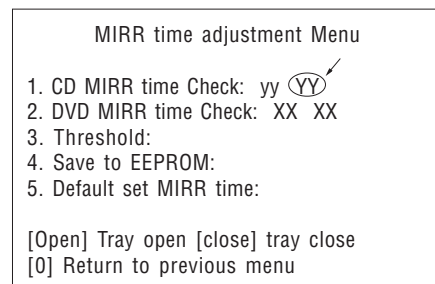
- (16) Take out HLX-504 and insert Test Disc YEDS-18 into tray.

- (17) Push "Open/Close" key to close tray.

- (18) Push "1. CD MIRR time check".

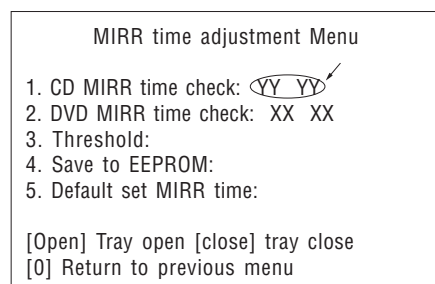
- (19) Wait for HEX number to display.

- (20) Confirm the number, if YY is 5A ~ E8, proceed with next step. If no, return to 15.



- (21) Push "4. Save to EEPROM".

- (22) Confirm the same values are displayed. If it is not the same, return to step 15.



- (23) Push "Open/Close" key to eject tray.

- (24) Remove Test Disc YEDS-18 from tray.

- (25) Push "Open/Close" key to close tray.




- (26) Press "0" to return to the Drive Manual Operation menu.

- (27) Press "0" to return to the Remocon Diagnosis Menu.

- (28) Press power button to switch OFF set.

3-5. EXECUTING IOP MEASUREMENT


In order to execute mirror time adjustment, the following standard procedures must be followed.

- (1) In standby mode, press three buttons  ,  (DISC1) and  simultaneously.

Remocon Diagnosis Menu

0. External Chip Check
1. Servo Parameter Check
2. Drive Manual Operation
3. Emergency History Check
4. Version information
5. Video Level Adjustment

Model : DPX-1790_UC2
IF-con Ver : 1.000 (5B84)
Syscon Ver : 1.81

- (2) Select “2. Drive Manual Operation” by pressing the  key on the remote commander. The screen will appear as below.

Drive Manual Operation

1. Servo Control
2. Track/Layer Jump
3. Manual Adjustment
4. Tray Aging Mode
5. MIRR time adjust
0. Return to top Menu

- (3) Select “3. Manual Adjustment” by pressing the  key on the remote commander. The screen will appear as below.

Manual Adjust


1. Track Balance Adjust:
2. Track Gain Adjust:
3. Focus Balance Adjust:
4. Focus Gain Adjust:
5. Eg boost Adjust:
6. Iop:
7. TRV. Level:
8. S curve(FE) Level:
9. RFL(PI) Level:
0. MIRR Time:

↓ ↑ Change Value
[RETURN] Return to previous menu

- (4) Select Iop by pressing  key on the remote commander.

- (5) Wait until a hexadecimal number appear.

Manual Adjust


1. Track Balance Adjust:
2. Track Gain Adjust:
3. Focus Balance Adjust:
4. Focus Gain Adjust:
5. Eq Boost Adjust:
6. Iop: 
7. TRV. Level:
8. S curve(FE) Level:
9. RFL(PI) Level:
0. MIRR Time:

Change Value
[0] Return to previous menu

- (6) Convert each data from hexadecimal to decimal using conversion table.

- (7) Substract between these two values.

- (8) If the remainder is smaller than 93 (decimal), then it is OK. However if the value is higher than 93, then the BU is defective and need to be change.

- (9) Press  to return back to previous menu.

- (10) Press 0 to return to Top Menu and power OFF the DVD Player.

SECTION 4 ELECTRICAL ADJUSTMENT

DVD SECTION

AUTO SERVO ADJUSTMENT

After parts related to the servo circuit (RF amplifier (IC102), DSP (IC201), motor driver (IC101), EEPROM (IC205) so on) are replaced, re-adjusting the servo circuit is necessary.

[TEST DISC LIST]

Use the following test disc on test mode.

TDV-520CSO (DVD-SL): PART No. J-2501-236-A

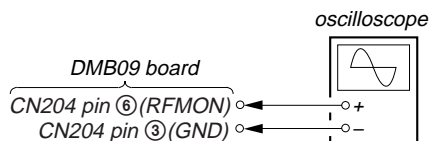
LUV-P01 (CD): PART No. 4-999-032-01

TDV-540C (DVD-DL): PART No. J-2501-235-A

Note: Do not use exiting test disc for DVD.

[RFMON Level Check]

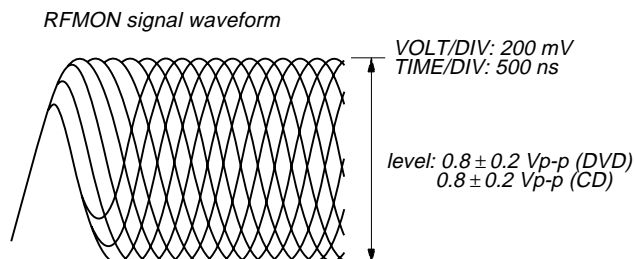
Connection:



Procedure:

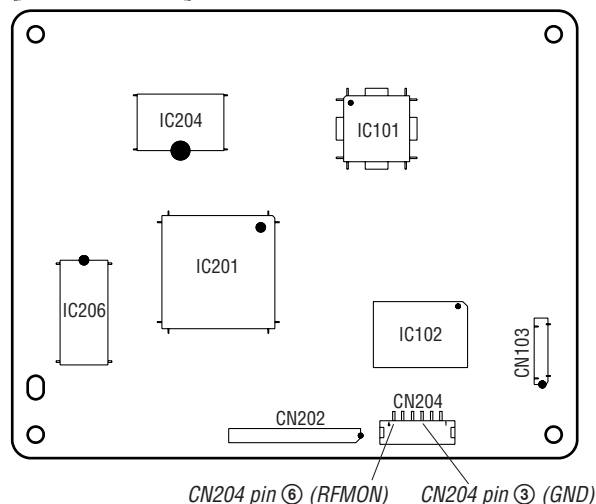
1. Connect an oscilloscope to CN204 pin ⑥ (RFMON) and CN204 pin ③ (GND) on the DMB09 board.
2. Turn the power on.
3. Set the test disc (DVD: TDV-520CSO, CD: LUV-P01) on the tray and press button to playback.
4. Confirm that oscilloscope waveform is clear and check RFMON signal level is correct or not.

Note: A clear RFMON signal waveform means that the shape “ \diamond ” can be clearly distinguished at the center of the waveform.



Checking Location: DMB09 board (Side A)

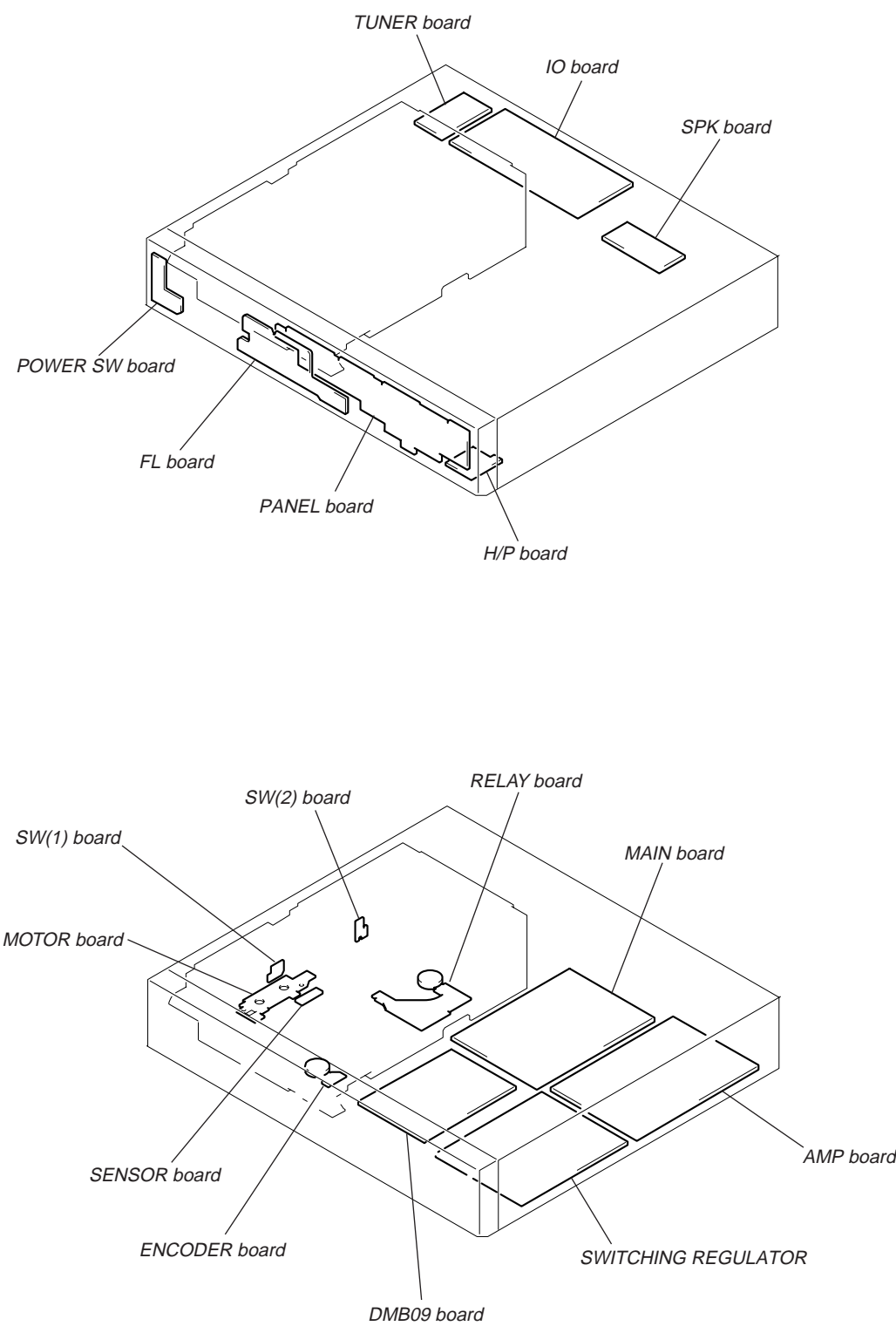
【DMB09 BOARD】(SIDE A)



MEMO

SECTION 5
DIAGRAMS


• Circuit Boards Location



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Schematic Diagrams.

Note:












- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{ W}$ or less unless otherwise specified.
- \triangle : internal component.
-  : panel designation.

Note:

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.




Note:

Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

-  : B+ Line.
-  : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages and waveforms are dc with respect to ground in service mode.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- no mark : FM
- Circled numbers refer to waveforms.
- Signal path.
 -  : AUDIO
 -  : CD PLAY
 -  : DVD PLAY
 -  : TUNER
 -  : VIDEO
 -  : Y
 -  : COMPONENT VIDEO
 -  : R, G, B
 -  : AUX IN
- Abbreviation
 - CND : Canadian model

For Printed Wiring Boards.

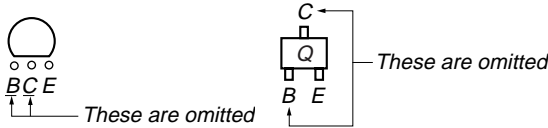
Note:

-  : parts extracted from the component side.
-  : Through hole.
-  : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

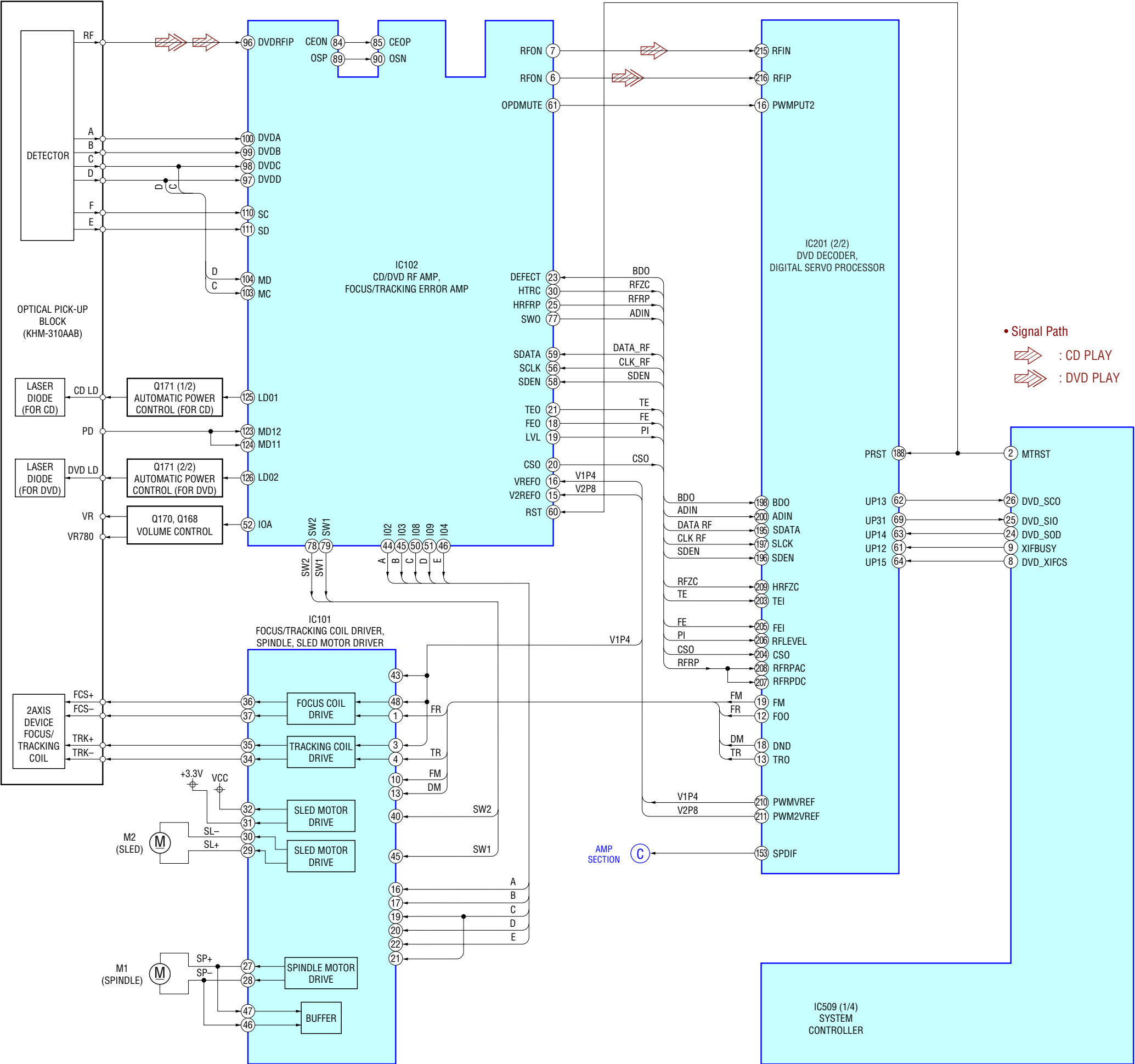
Caution:

Pattern face side: Parts on the pattern face side seen from (SIDE A) the pattern face are indicated.
Parts face side: Parts on the parts face side seen from (SIDE B) the parts face are indicated.

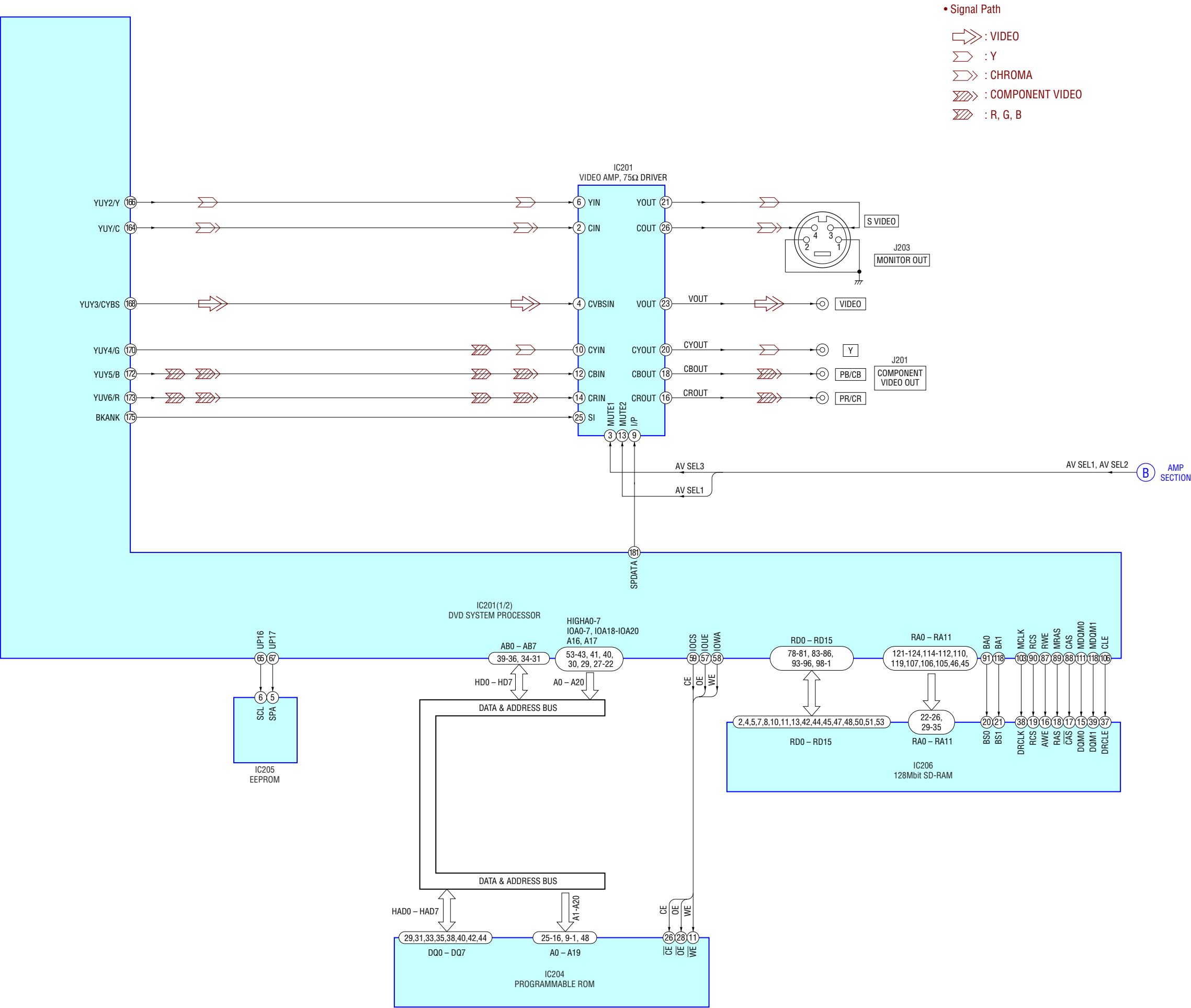
• Indication of transistor.

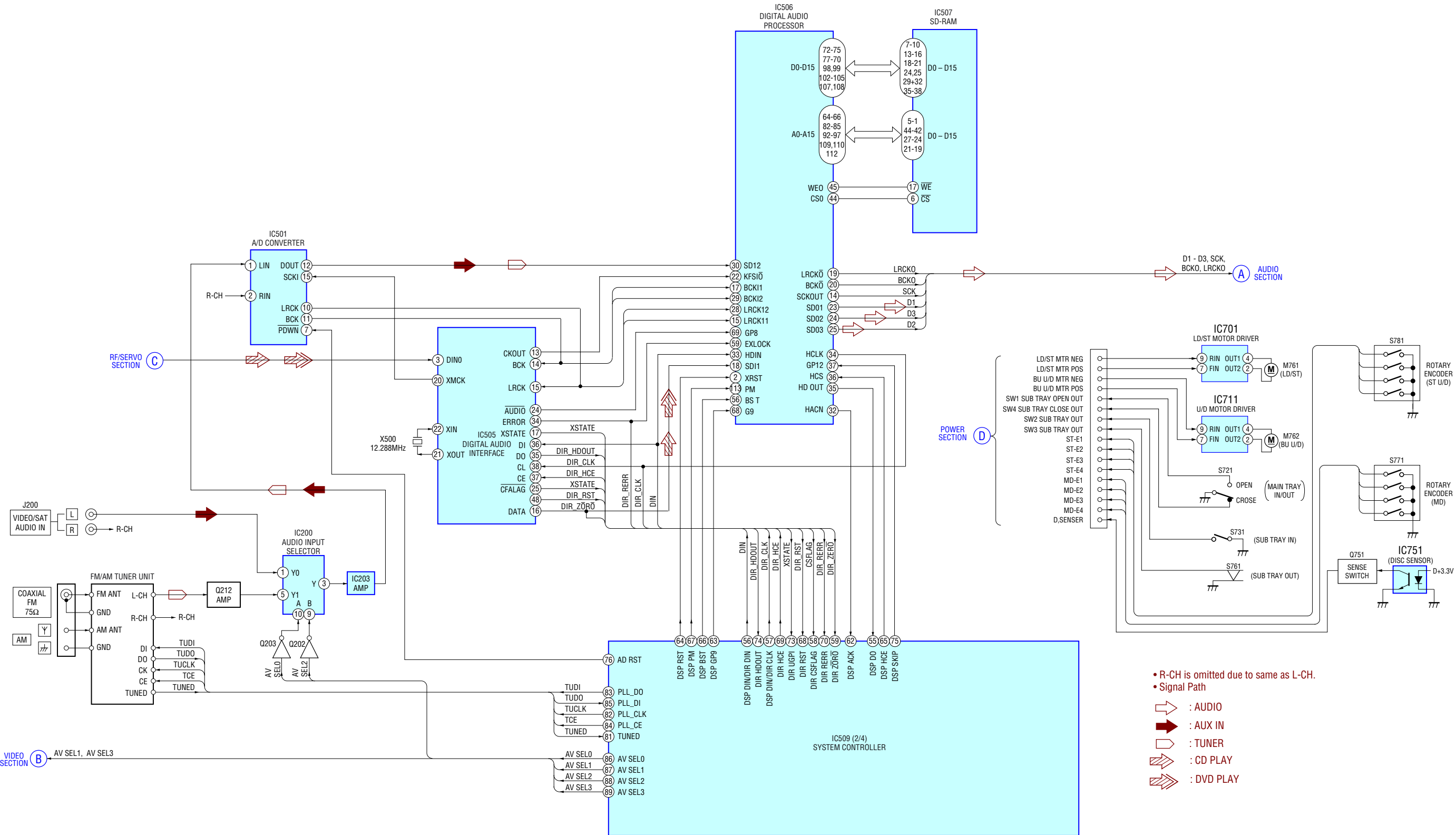


5-1. BLOCK DIAGRAM – RF/SERVO SECTION –

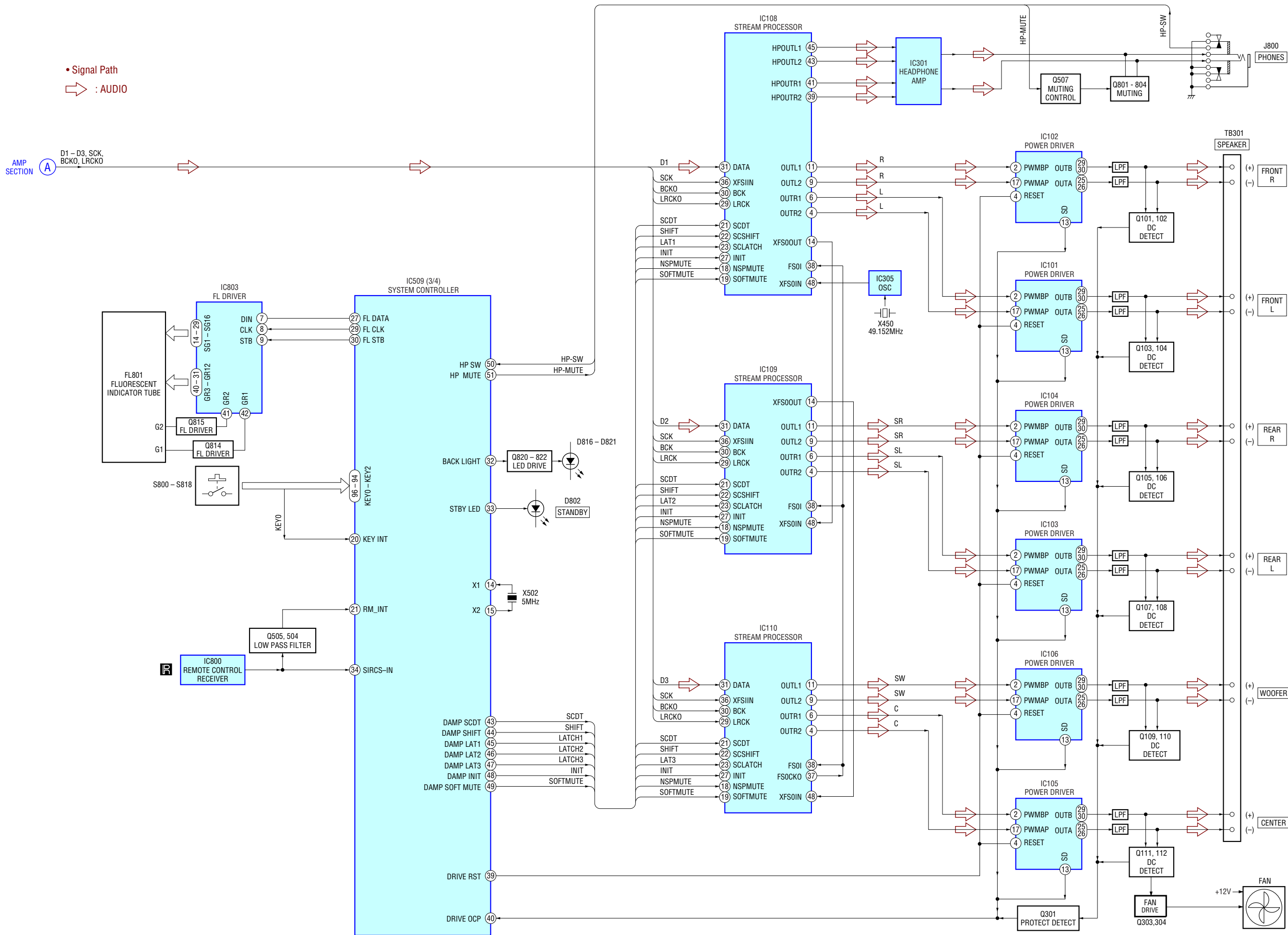


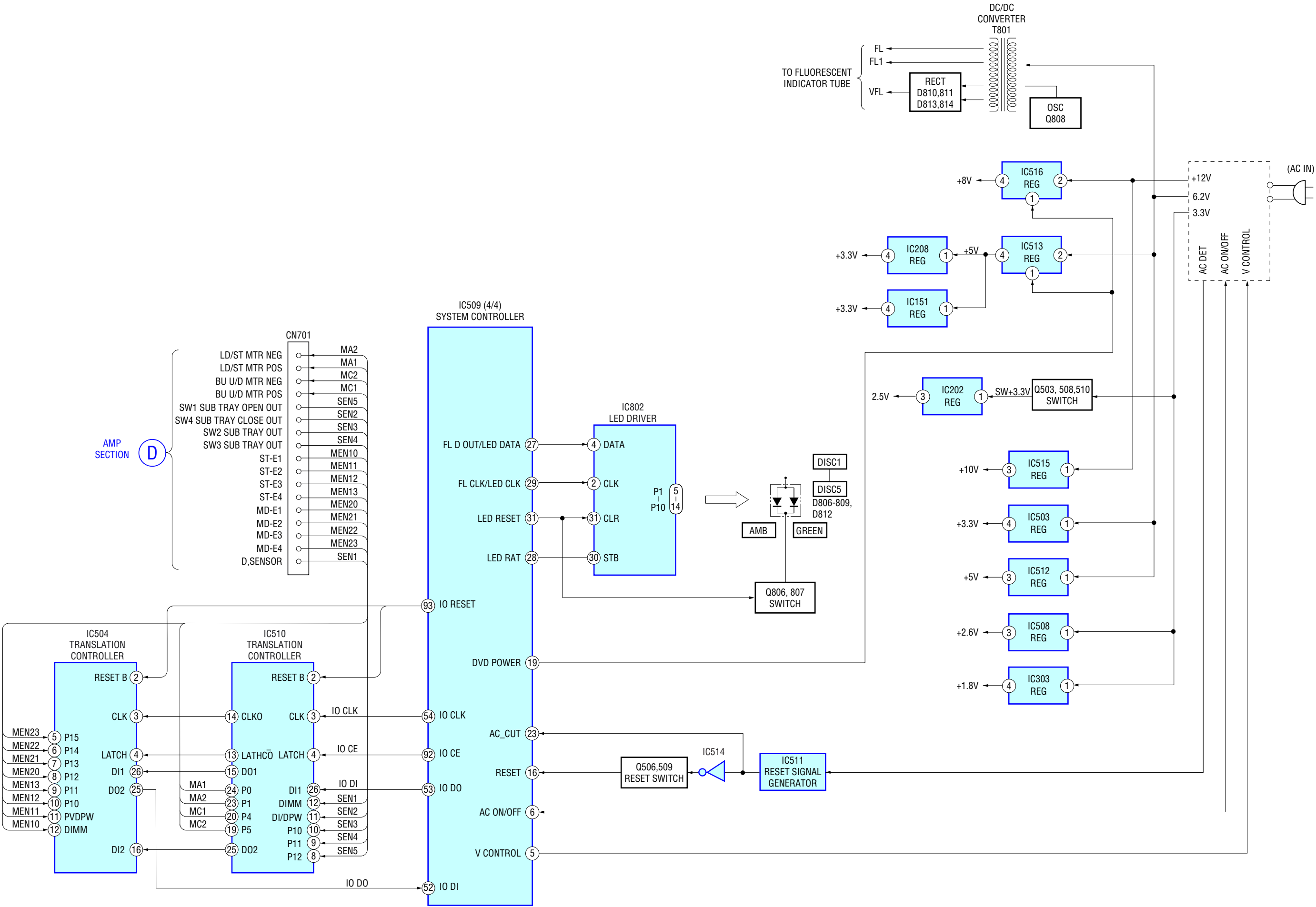
- VIDEO SECTION -

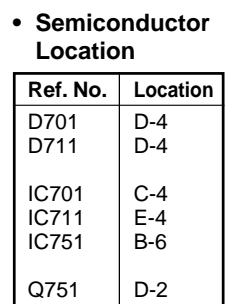




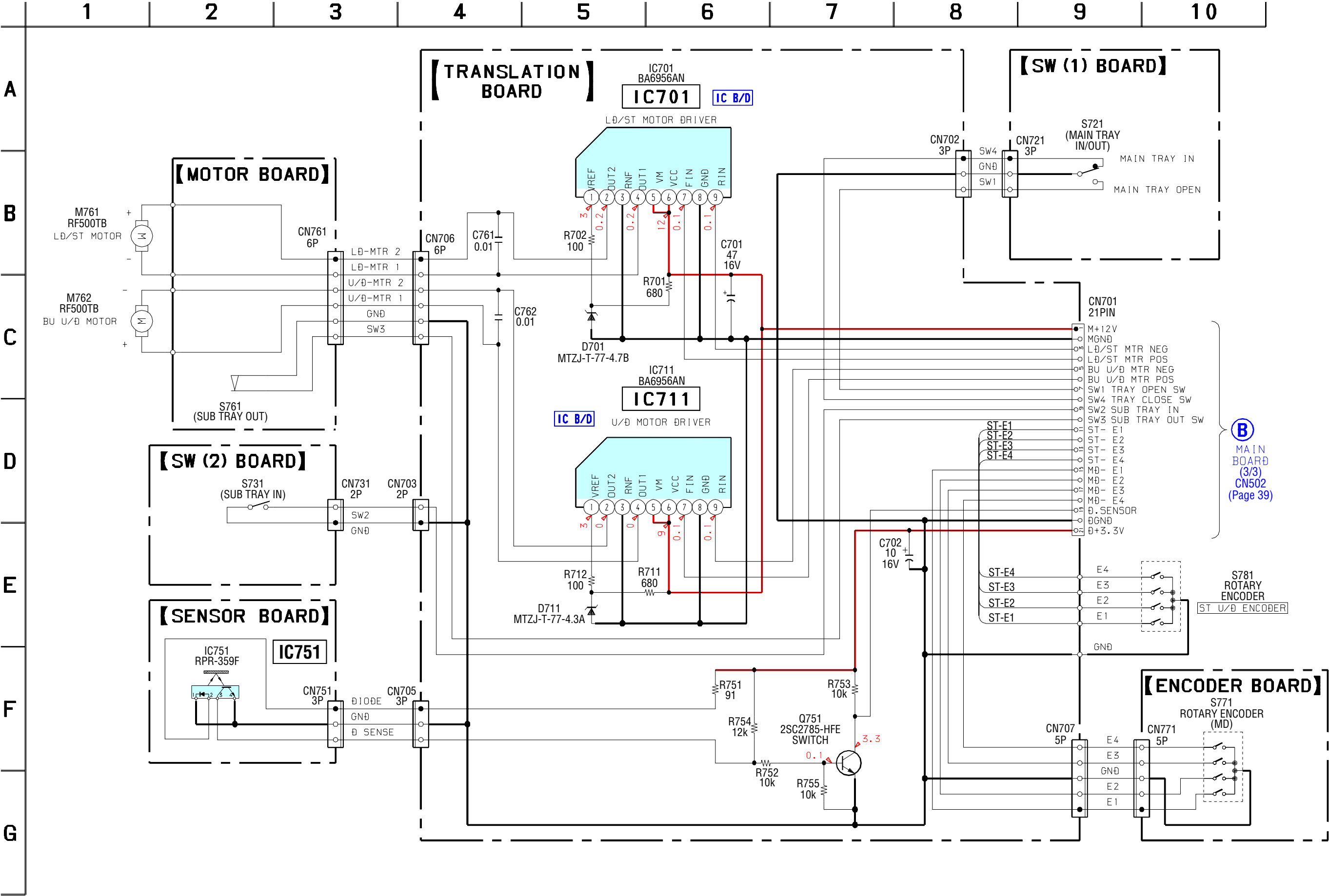
- AUDIO SECTION -



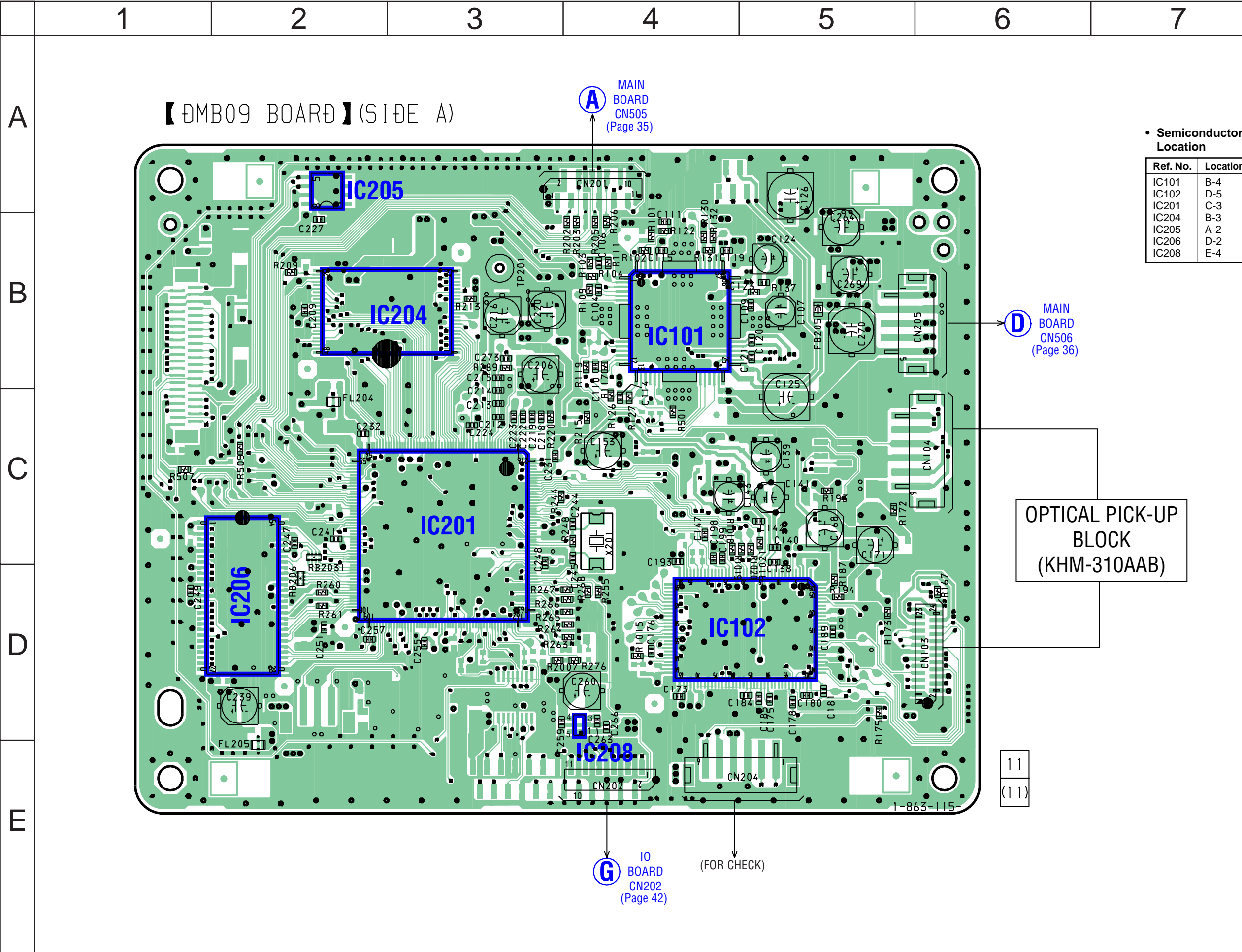


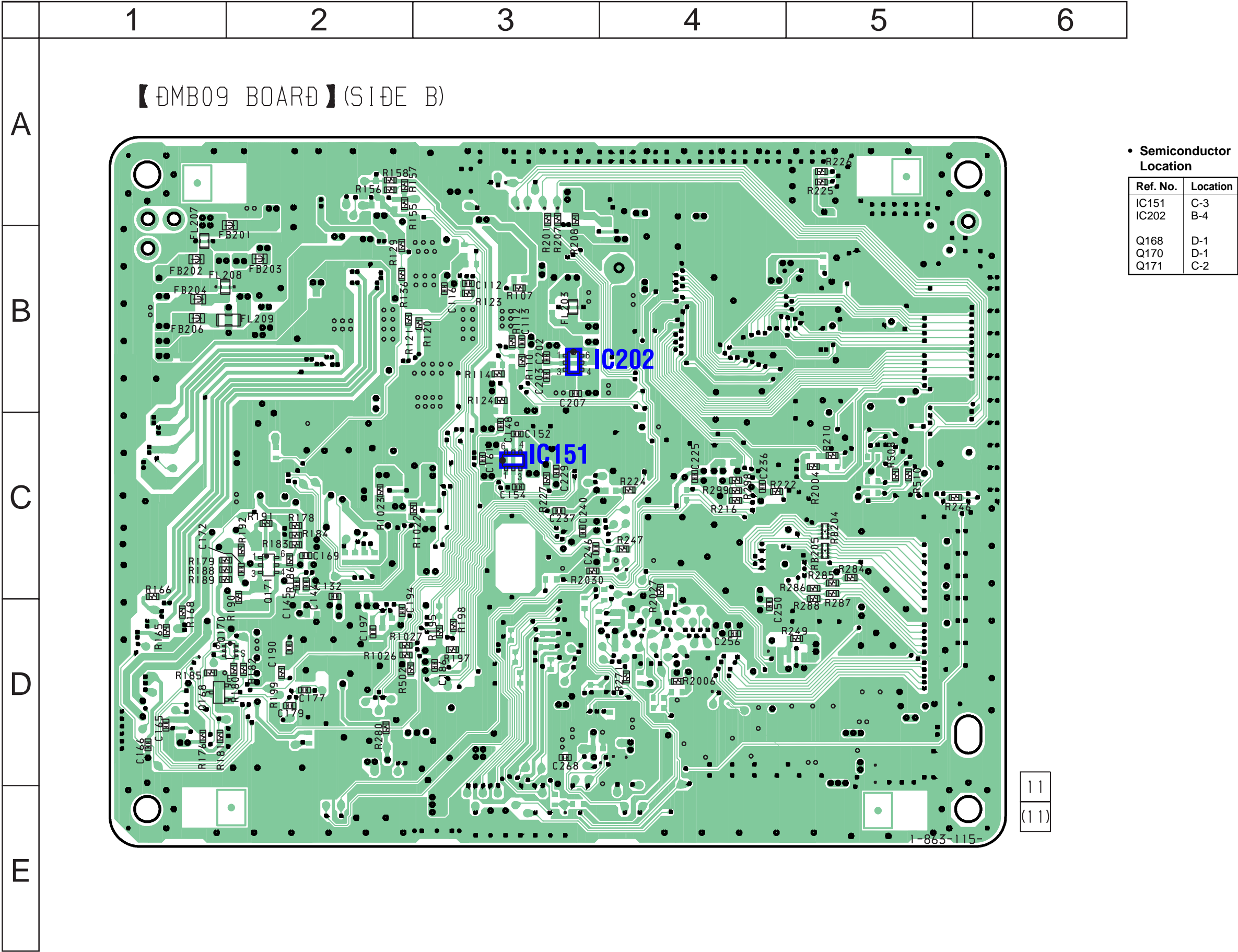


5-3. SCHEMATIC DIAGRAM – DVD MECHANISM SECTION – • See page 52 for IC Block Diagrams.

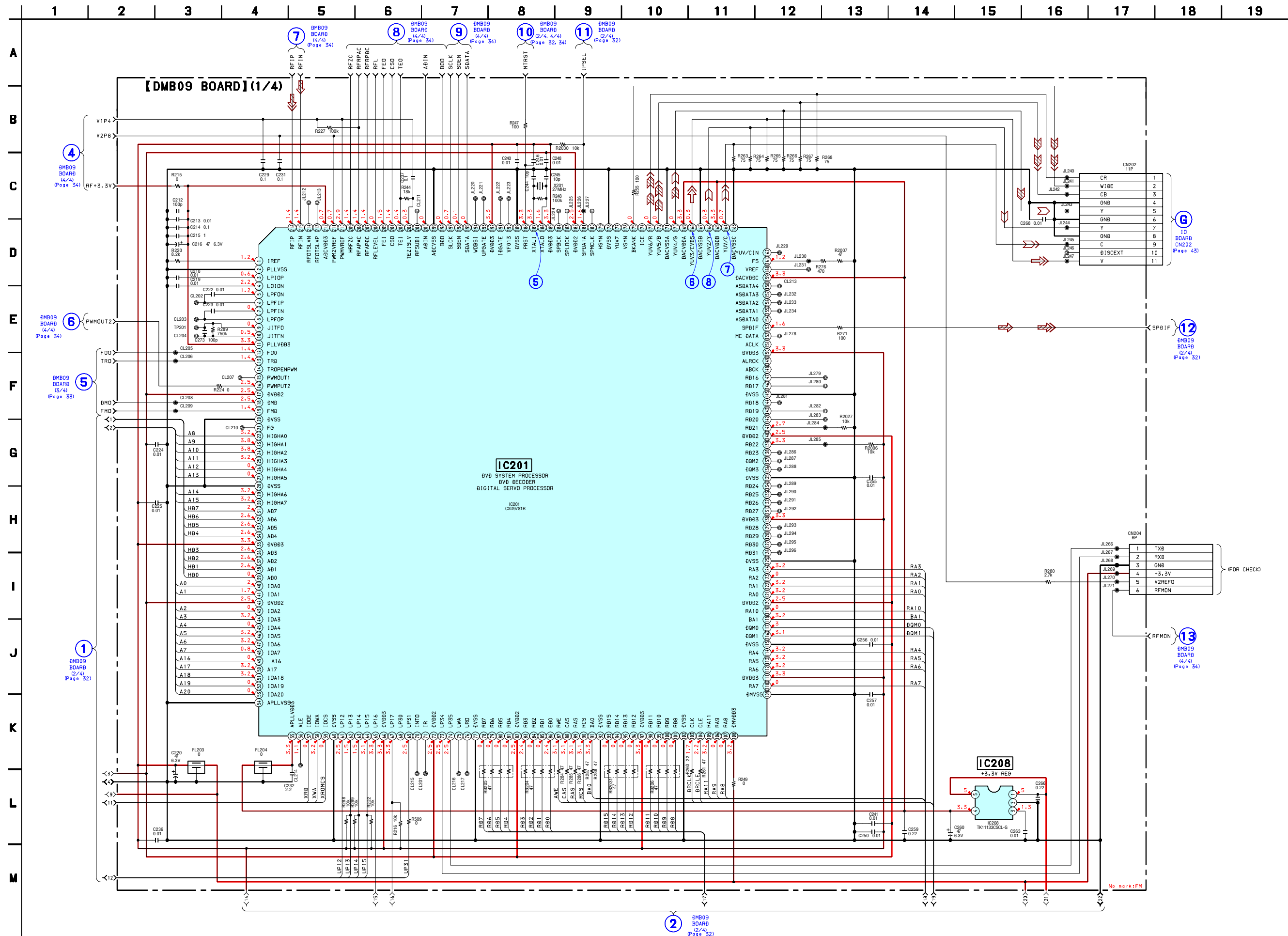


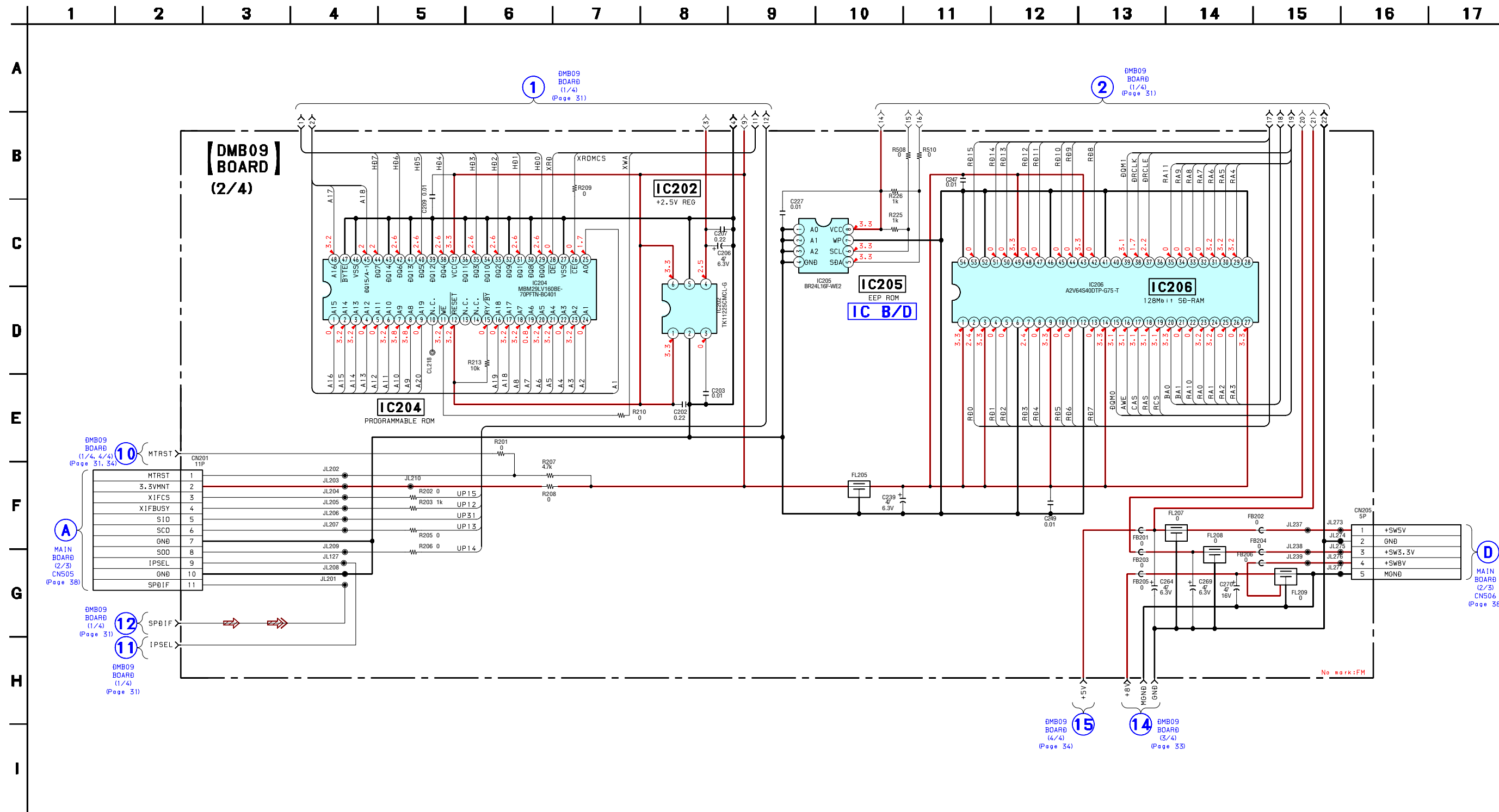
5-4. PRINTED WIRING BOARD – DMB09 SECTION (SIDE A) – • See page 21 for Circuit Boards Location.



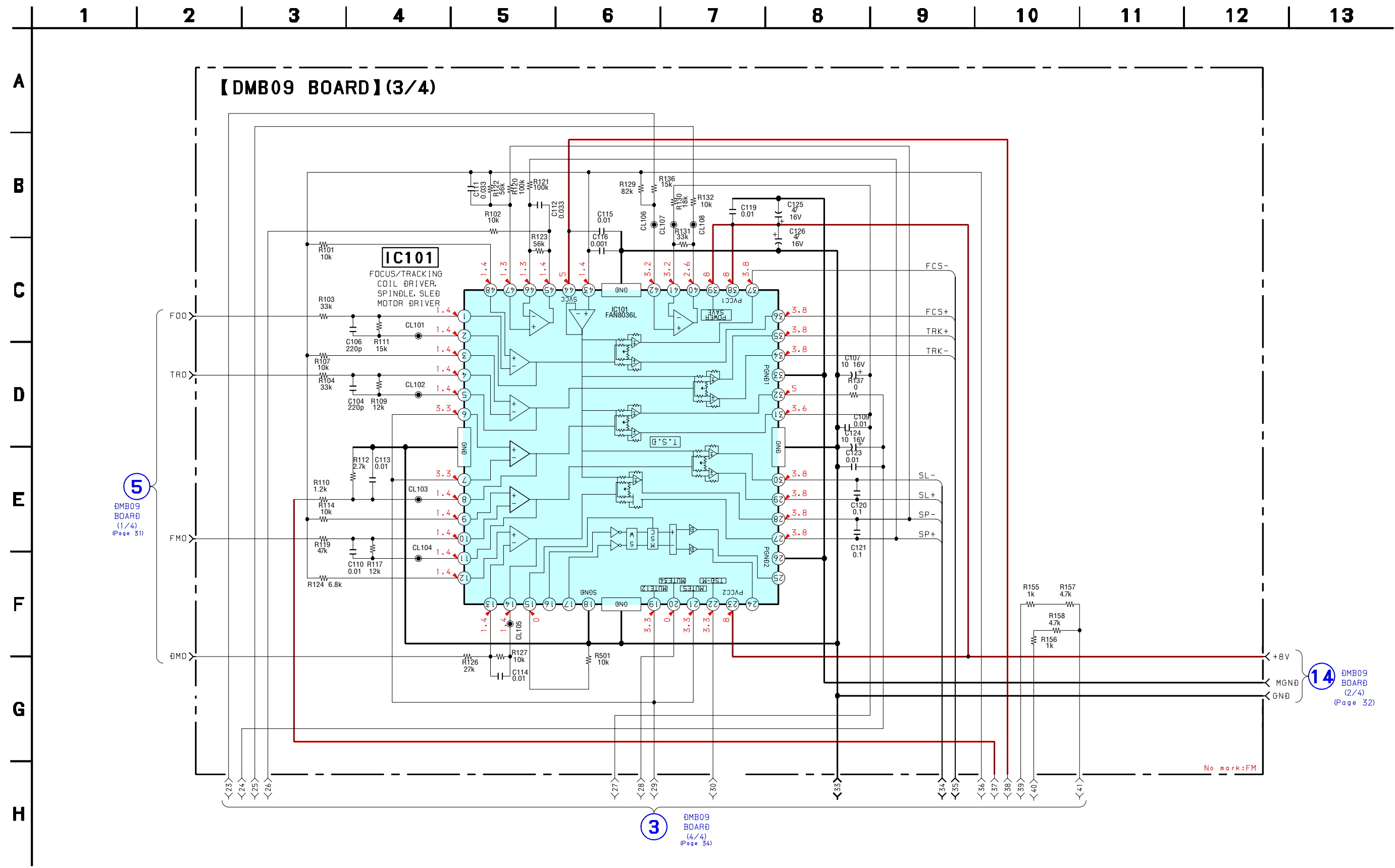



5-6. SCHEMATIC DIAGRAM – DMB09 SECTION (1/4) – • See page 59 for IC Pin Function Description. • See page 51 for Waveforms.

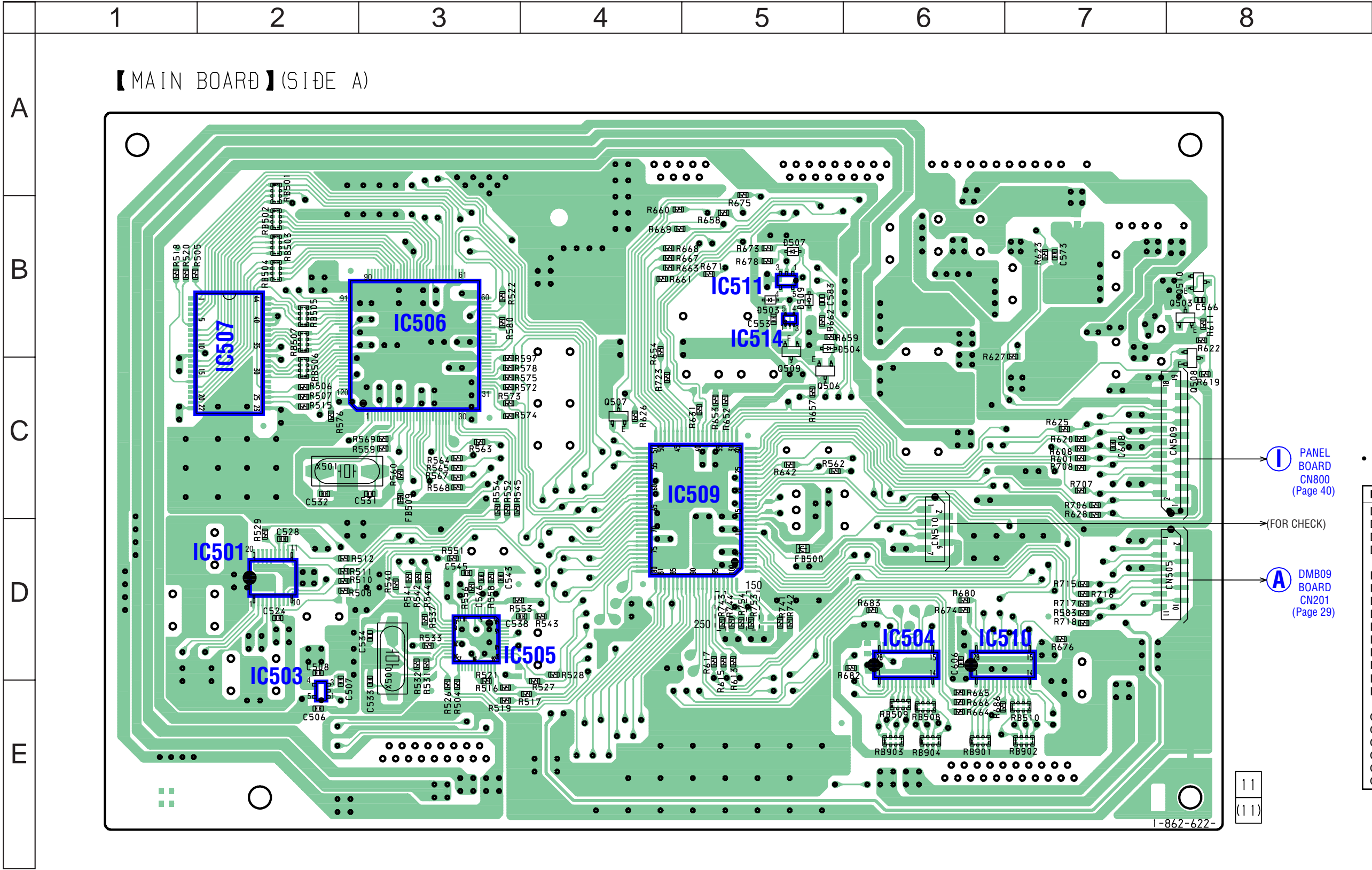




5-8. SCHEMATIC DIAGRAM – DMB09 SECTION (3/4) –

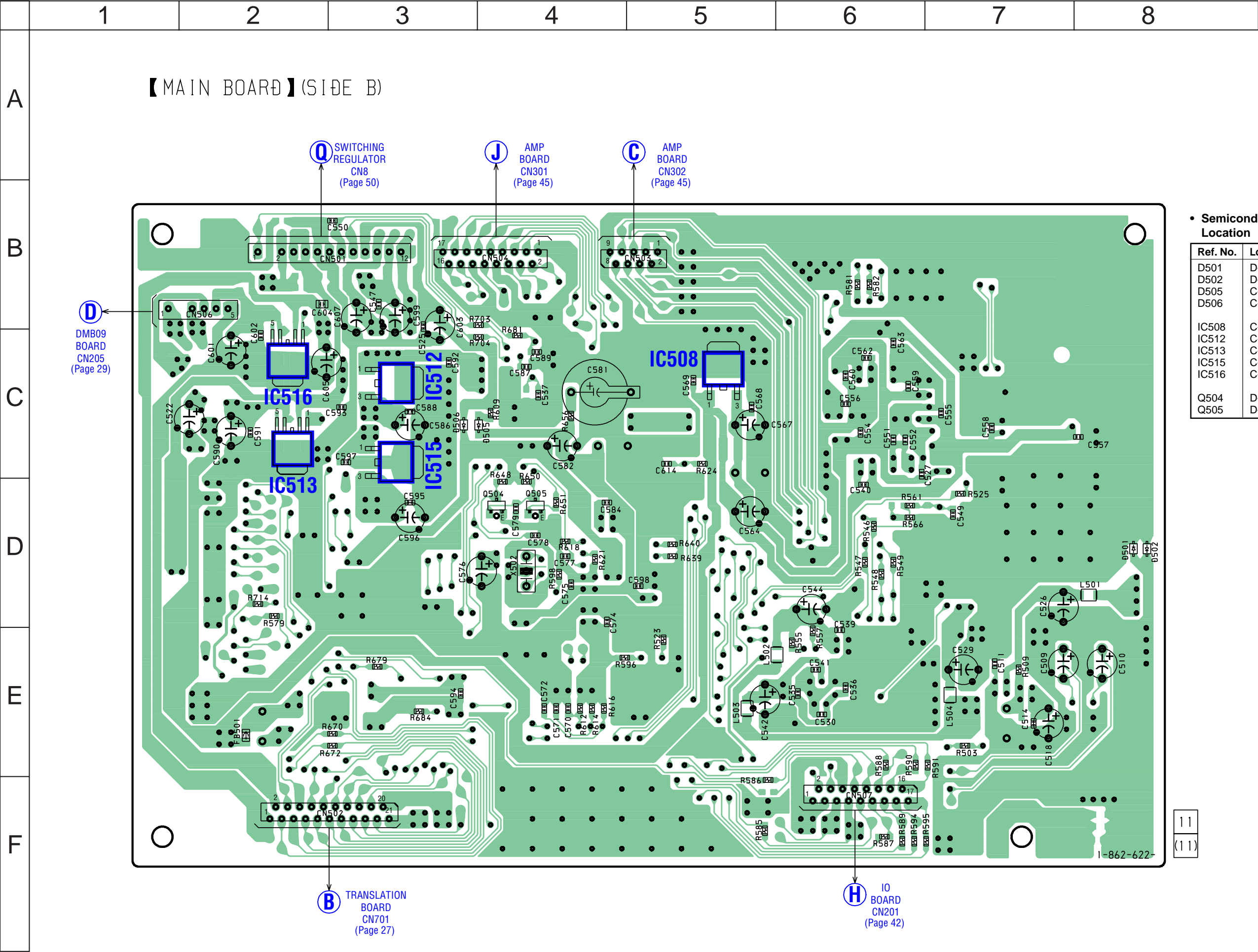


5-10. PRINTED WIRING BOARD – MAIN SECTION (SIDE A) – • See page 21 for Circuit Boards Location.  :Uses unleaded solder.



• Semiconductor Location

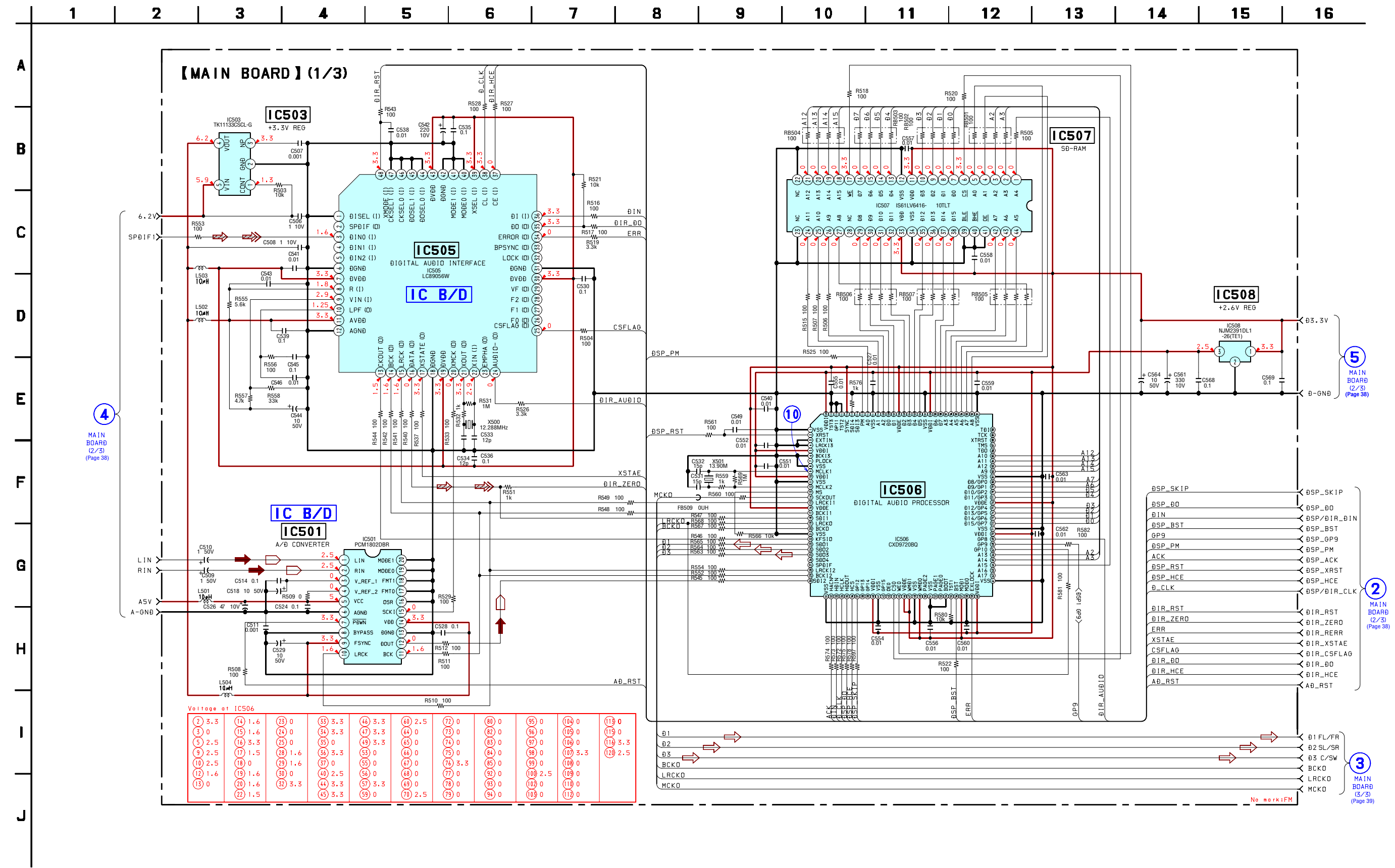
| Ref. No. | Location |
|----------|----------|
| D503 | B-5 |
| D504 | B-5 |
| D507 | B-5 |
| D509 | B-5 |
| IC501 | D-2 |
| IC503 | E-2 |
| IC504 | D-6 |
| IC505 | D-4 |
| IC506 | B-3 |
| IC507 | B-2 |
| IC509 | C-5 |
| IC510 | D-7 |
| IC511 | B-5 |
| IC514 | B-5 |
| Q503 | B-8 |
| Q506 | C-5 |
| Q507 | C-4 |
| Q508 | C-8 |
| Q509 | C-5 |
| Q510 | B-8 |

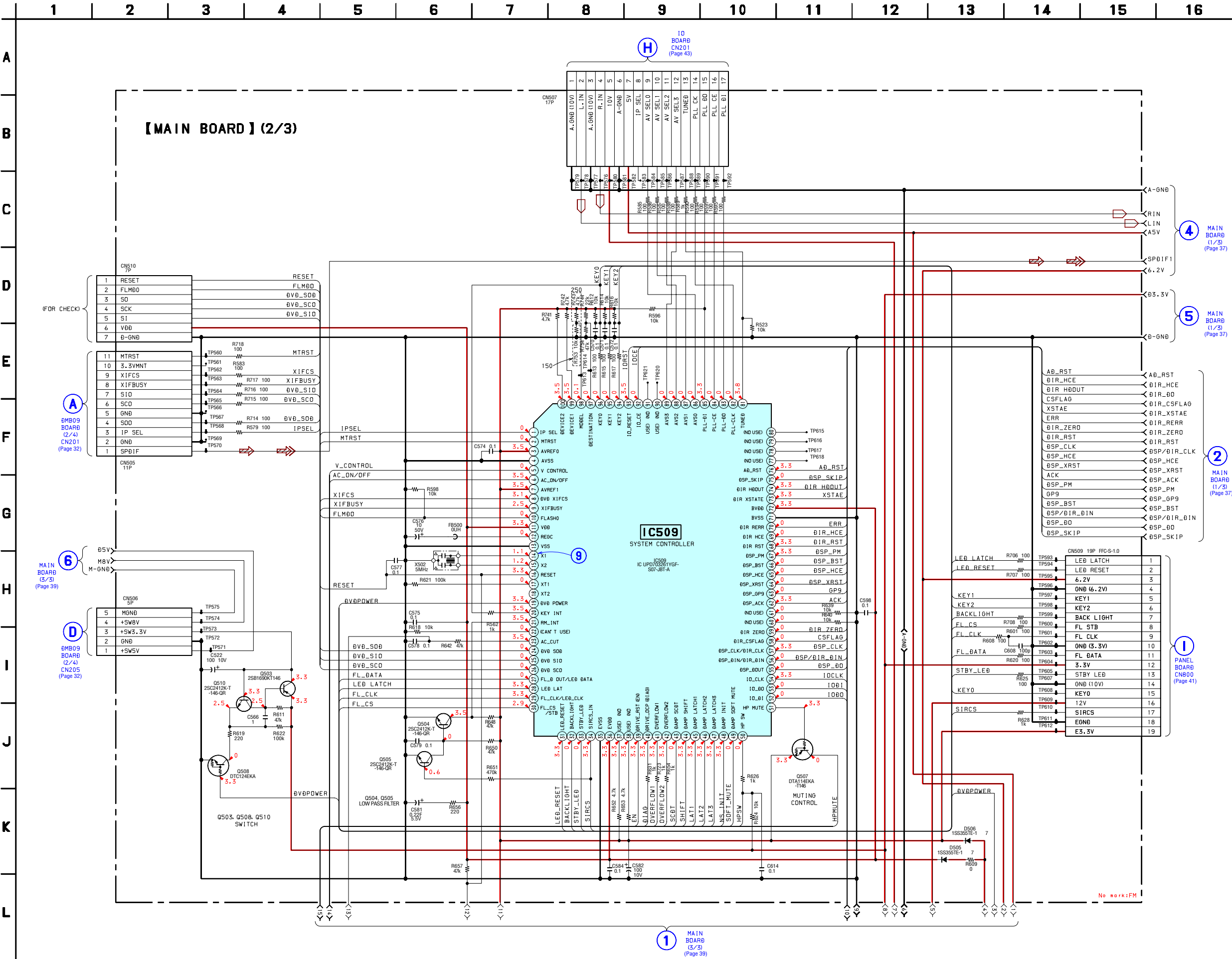


• Semiconductor Location

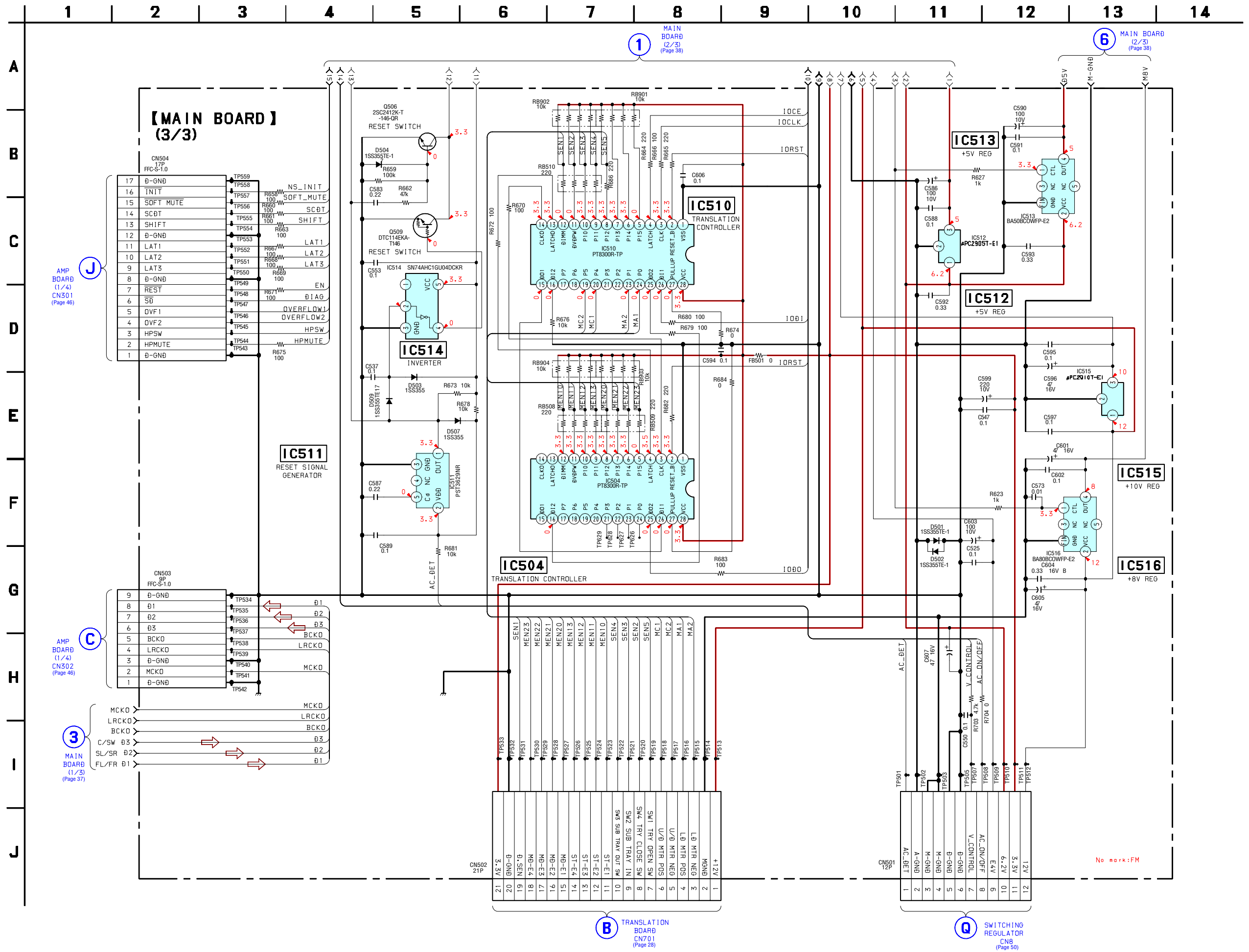
| Ref. No. | Location |
|----------|----------|
| D501 | D-8 |
| D502 | D-8 |
| D505 | C-4 |
| D506 | C-3 |
| IC508 | C-5 |
| IC512 | C-3 |
| IC513 | C-2 |
| IC515 | C-3 |
| IC516 | C-2 |
| Q504 | D-4 |
| Q505 | D-4 |

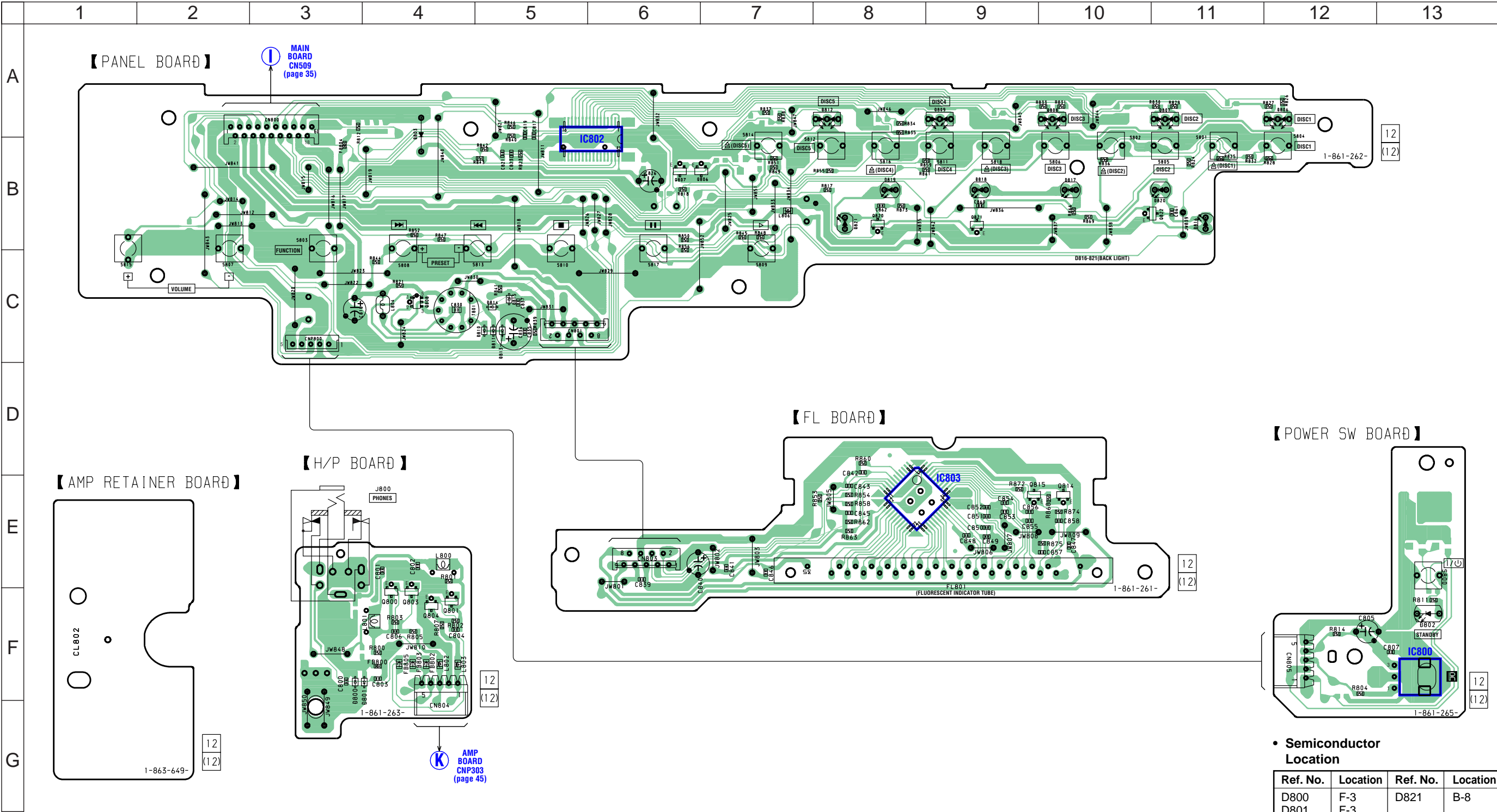
5-12. SCHEMATIC DIAGRAM – MAIN SECTION (1/3) – • See page 52, 53 for IC Block Diagrams. • See page 63 for IC Pin Function Description. • See page 51 for Waveforms.





5-14. SCHEMATIC DIAGRAM – MAIN SECTION (3/3) –

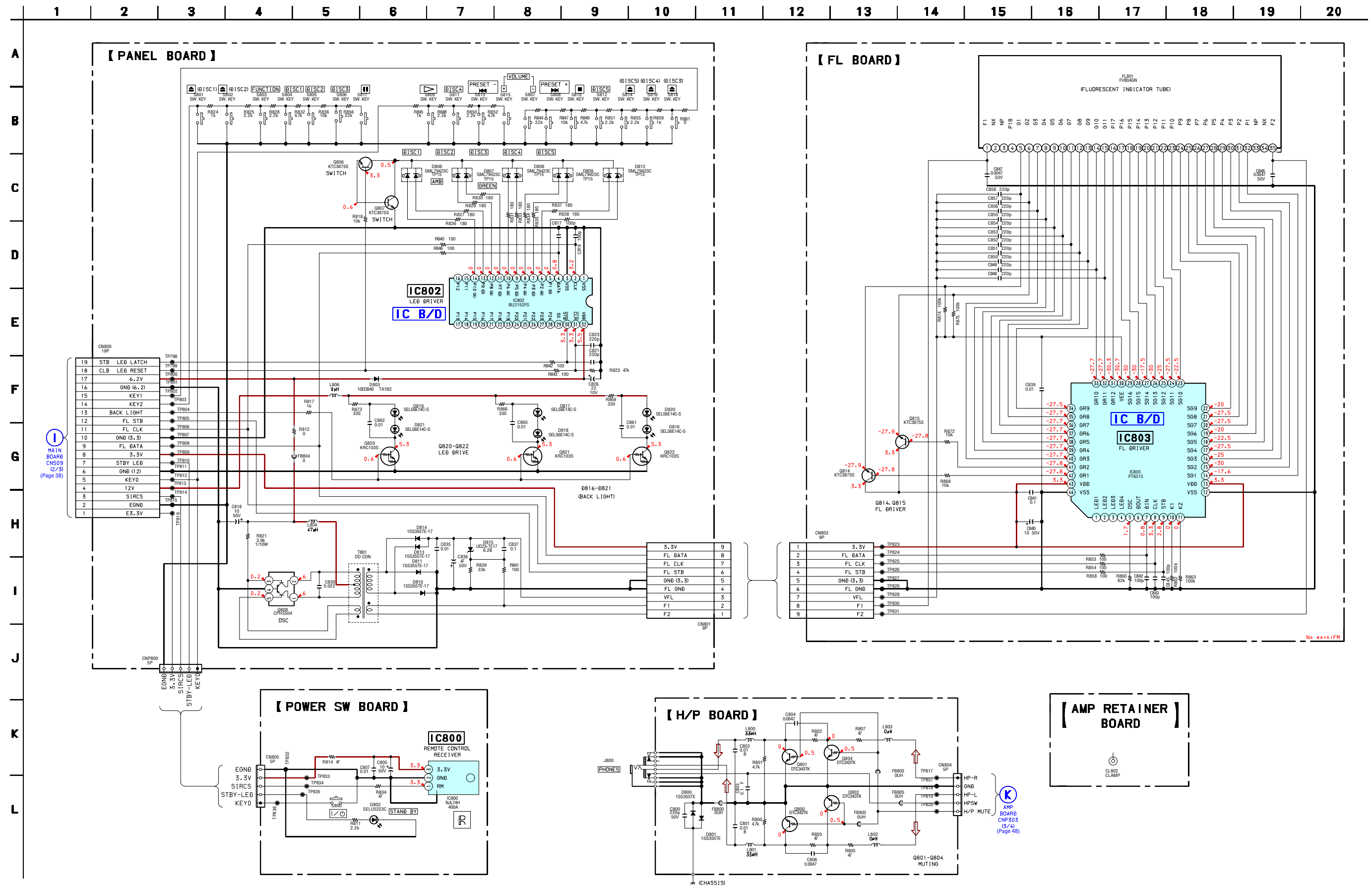


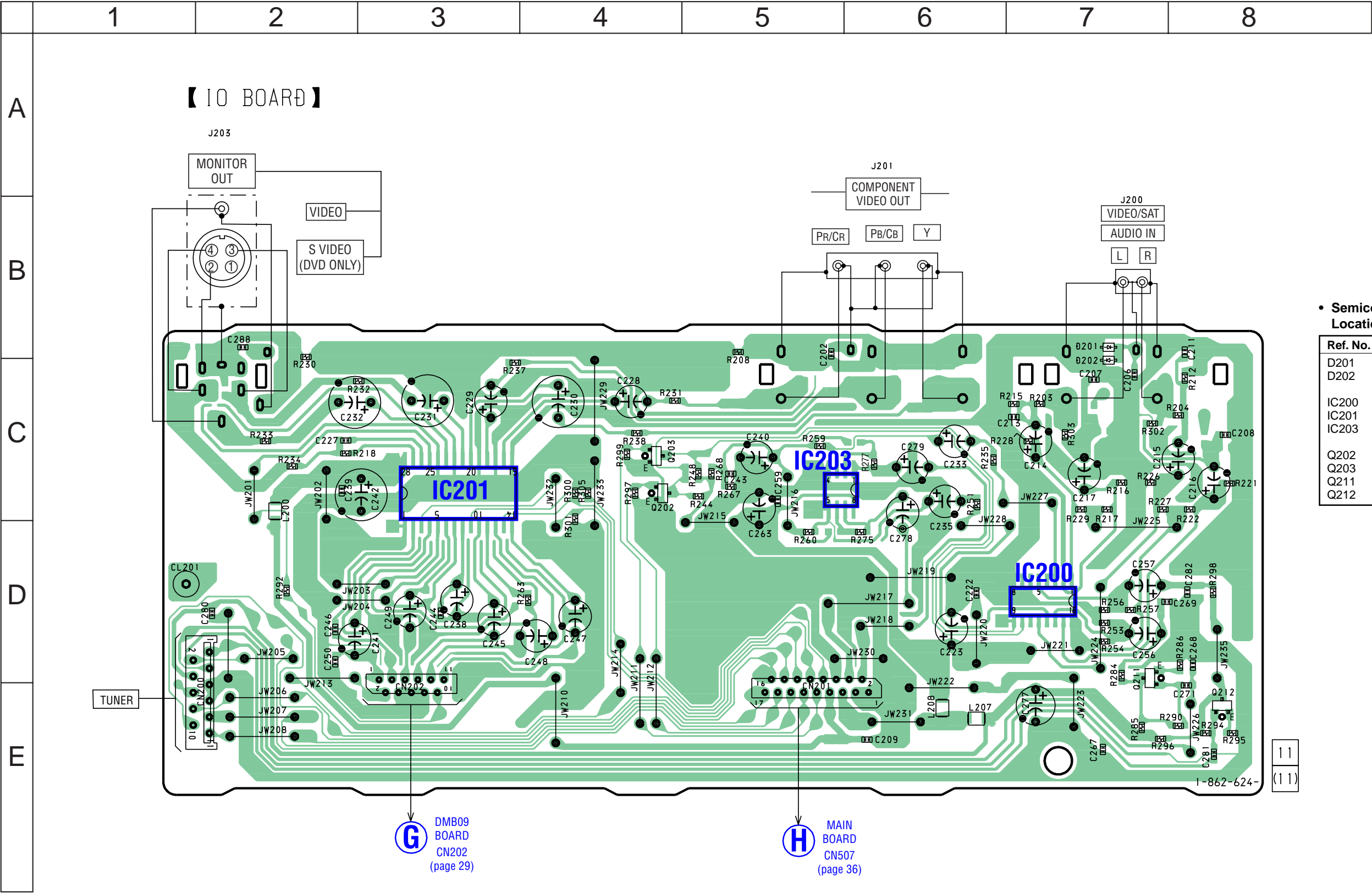


• Semiconductor Location

| Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|
| D800 | F-3 | D821 | B-8 |
| D801 | F-3 | | |
| D802 | F-13 | IC800 | F-13 |
| D803 | A-4 | IC802 | A-6 |
| D806 | A-12 | IC803 | E-9 |
| D807 | A-11 | | |
| D808 | A-10 | Q800 | F-4 |
| D809 | A-9 | Q801 | F-4 |
| D810 | C-5 | Q803 | F-4 |
| D811 | C-5 | Q804 | F-4 |
| D812 | A-8 | Q806 | B-7 |
| D813 | C-5 | Q807 | B-6 |
| D814 | C-5 | Q808 | C-4 |
| D815 | C-5 | Q814 | E-10 |
| D816 | B-11 | Q815 | E-9 |
| D817 | B-10 | Q820 | B-8 |
| D818 | B-9 | Q821 | B-9 |
| D819 | B-8 | Q822 | B-11 |
| D820 | B-11 | | |

5-16. SCHEMATIC DIAGRAM – PANEL/FL/POWER SW/H/P/AMP RETAINER SECTION – • See page 52, 55 for IC Block Diagrams.

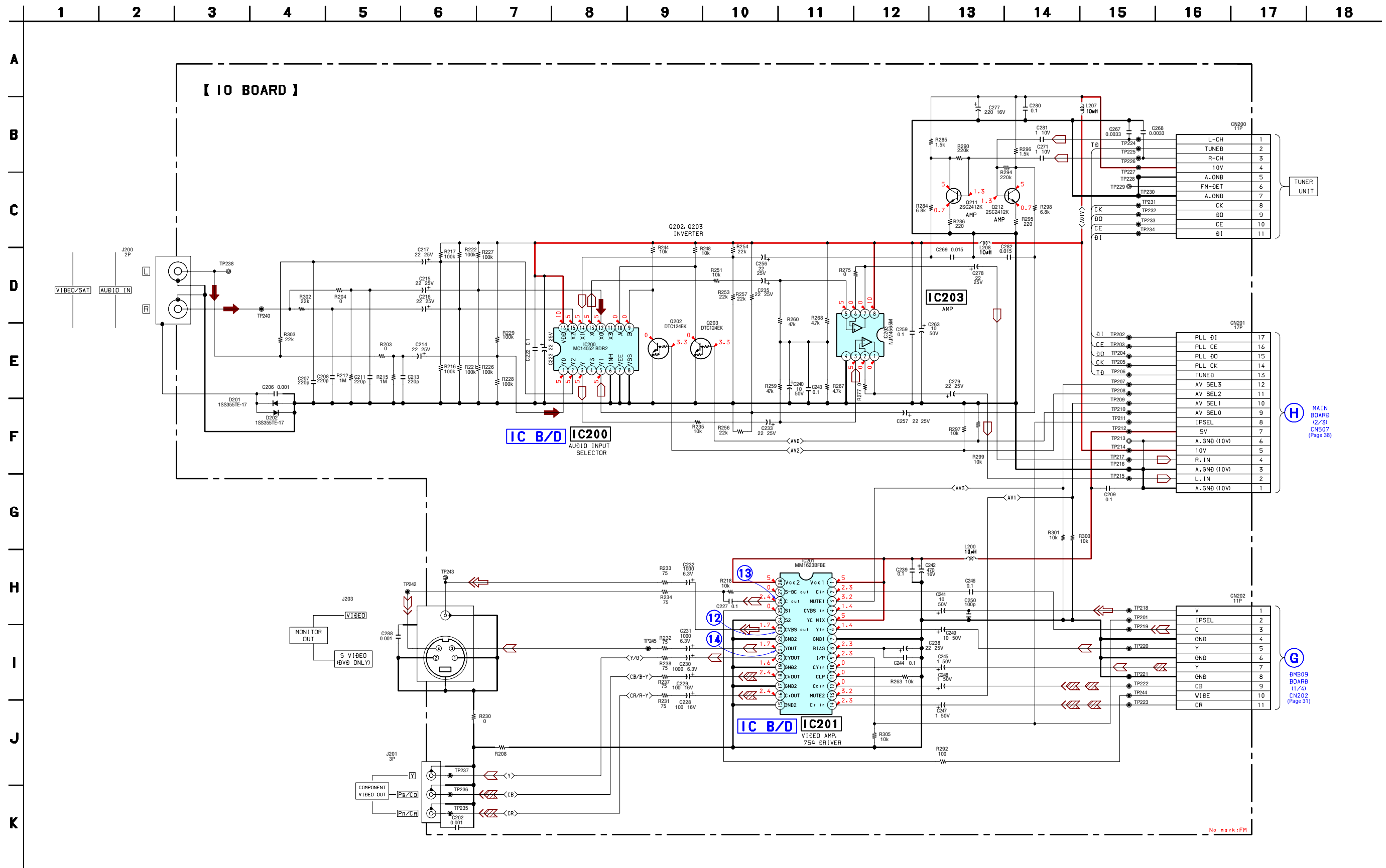





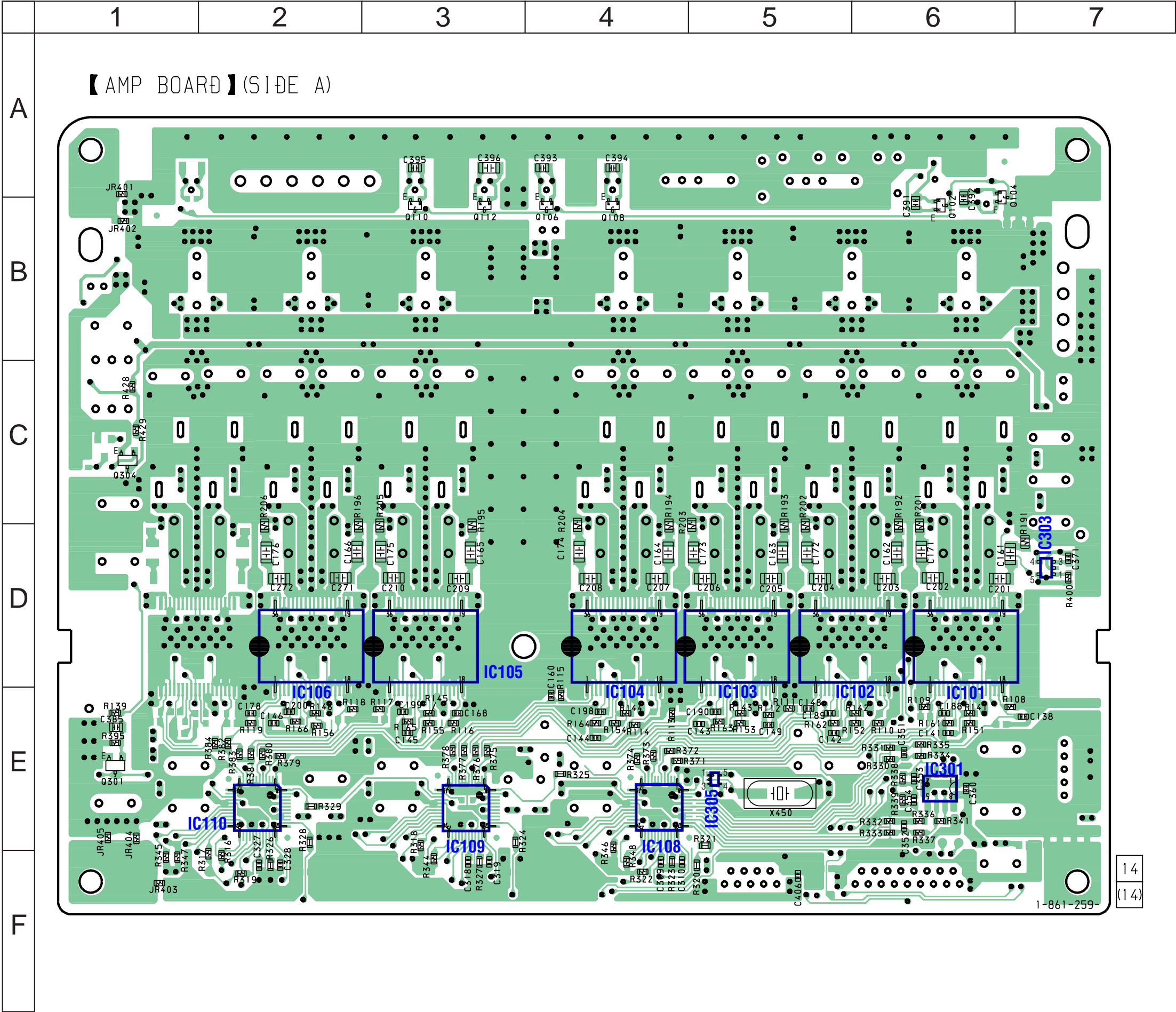
• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D201 | B-7 |
| D202 | B-7 |
| IC200 | D-7 |
| IC201 | C-3 |
| IC203 | C-5 |
| Q202 | C-4 |
| Q203 | C-4 |
| Q211 | D-7 |
| Q212 | E-8 |

5-18. SCHEMATIC DIAGRAM – IO SECTION – • See page 54 for IC Block Diagrams. • See page 51 for Waveforms.




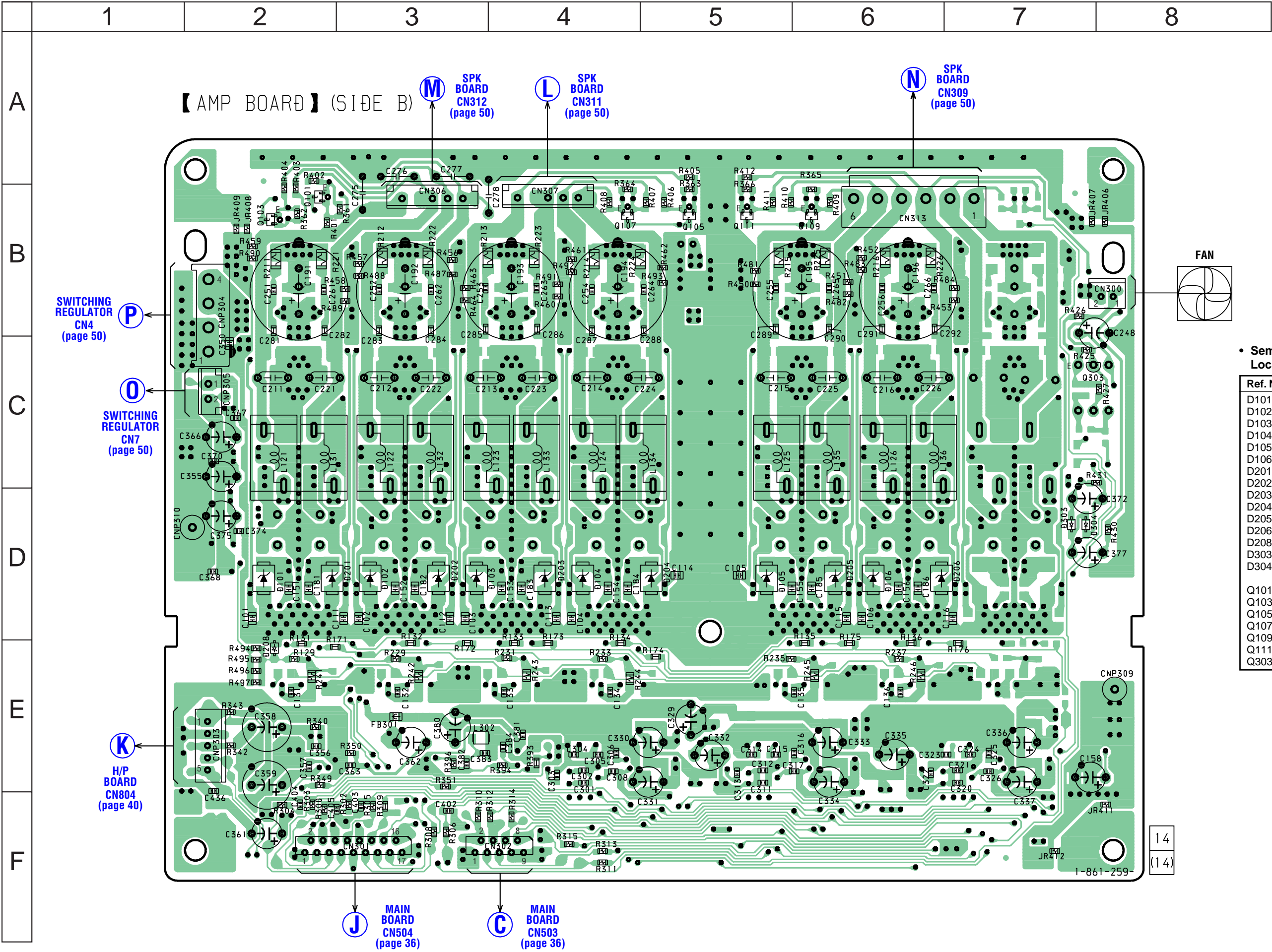
5-19. PRINTED WIRING BOARD – AMP SECTION (SIDE A) – • See page 21 for Circuit Boards Location.  :Uses unleaded solder.



• Semiconductor Location

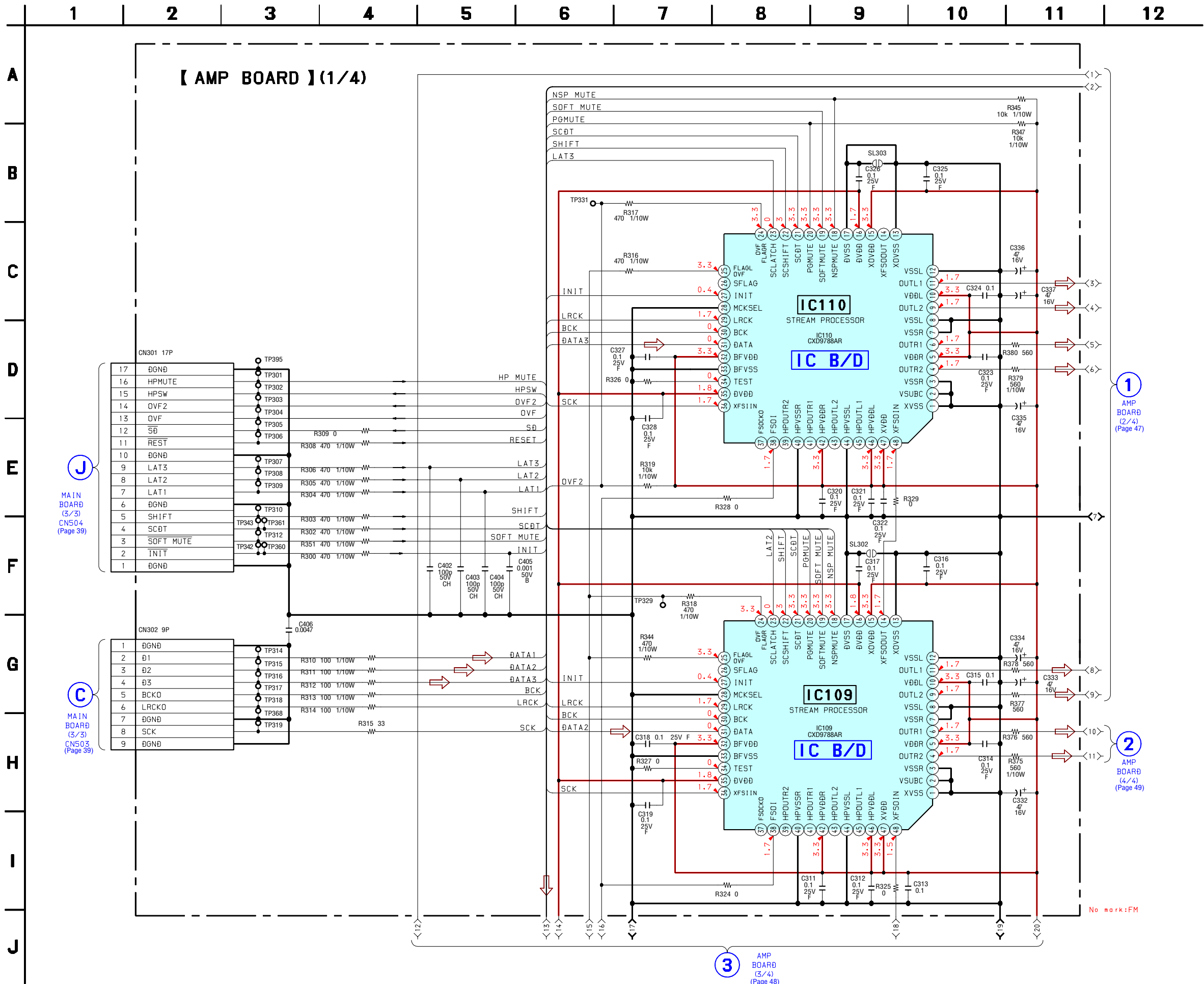
| Ref. No. | Location |
|----------|----------|
| IC101 | E-6 |
| IC102 | E-6 |
| IC103 | E-5 |
| IC104 | E-4 |
| IC105 | D-3 |
| IC106 | E-2 |
| IC108 | E-4 |
| IC109 | E-3 |
| IC110 | E-2 |
| IC301 | E-6 |
| IC303 | D-7 |
| IC305 | E-5 |
| Q102 | B-6 |
| Q104 | A-6 |
| Q106 | B-4 |
| Q108 | B-4 |
| Q110 | B-3 |
| Q112 | B-3 |
| Q301 | E-1 |
| Q304 | C-1 |

5-20. PRINTED WIRING BOARD – AMP SECTION (SIDE B) – • See page 21 for Circuit Boards Location.  :Uses unleaded solder.

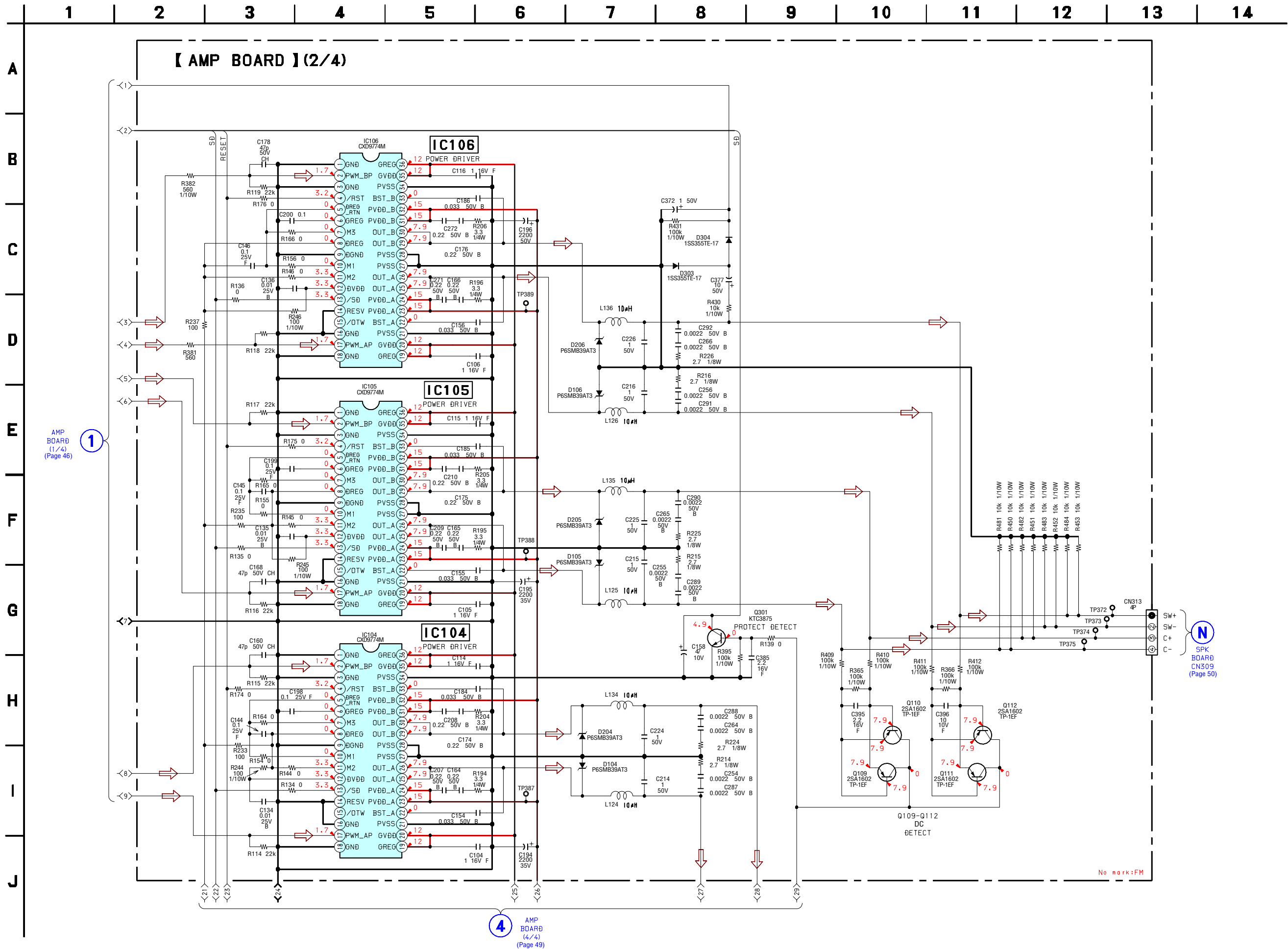


• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D101 | D-2 |
| D102 | D-3 |
| D103 | D-3 |
| D104 | D-4 |
| D105 | D-5 |
| D106 | D-6 |
| D201 | D-2 |
| D202 | D-3 |
| D203 | D-4 |
| D204 | D-5 |
| D205 | D-6 |
| D206 | D-7 |
| D208 | E-2 |
| D303 | D-7 |
| D304 | D-8 |
| Q101 | B-2 |
| Q103 | B-2 |
| Q105 | B-5 |
| Q107 | B-4 |
| Q109 | B-6 |
| Q111 | B-5 |
| Q303 | C-8 |

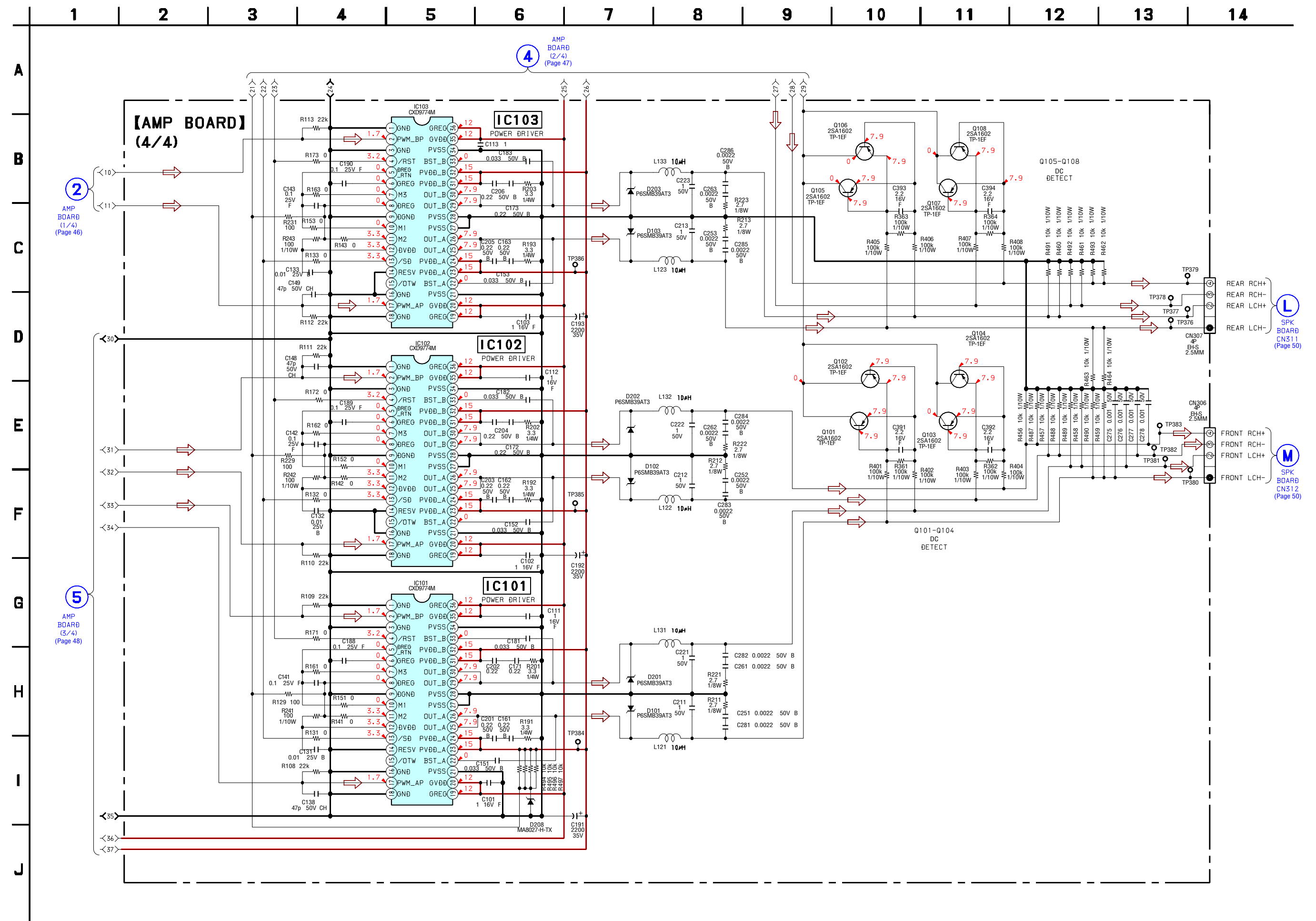


5-22. SCHEMATIC DIAGRAM – AMP SECTION (2/4) – • See page 69 for IC Pin Function Description.

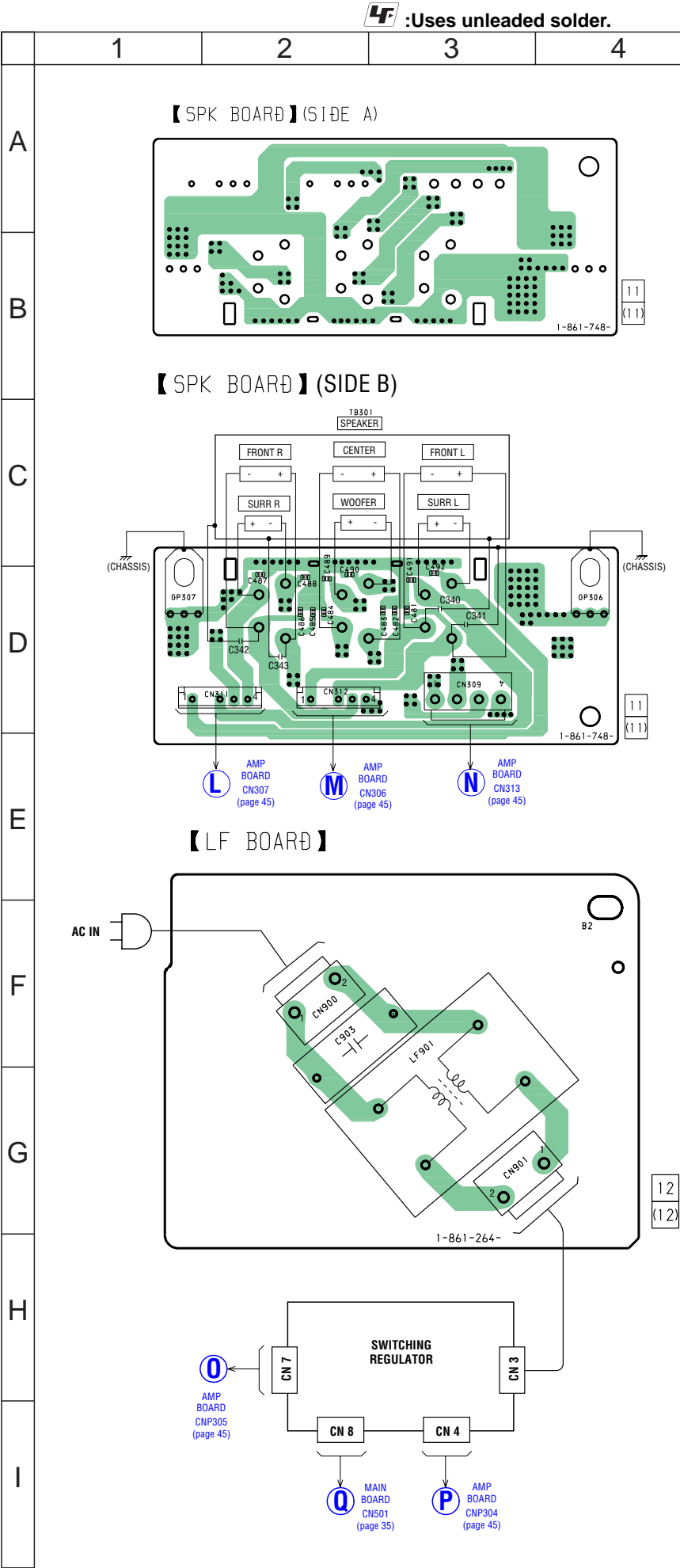




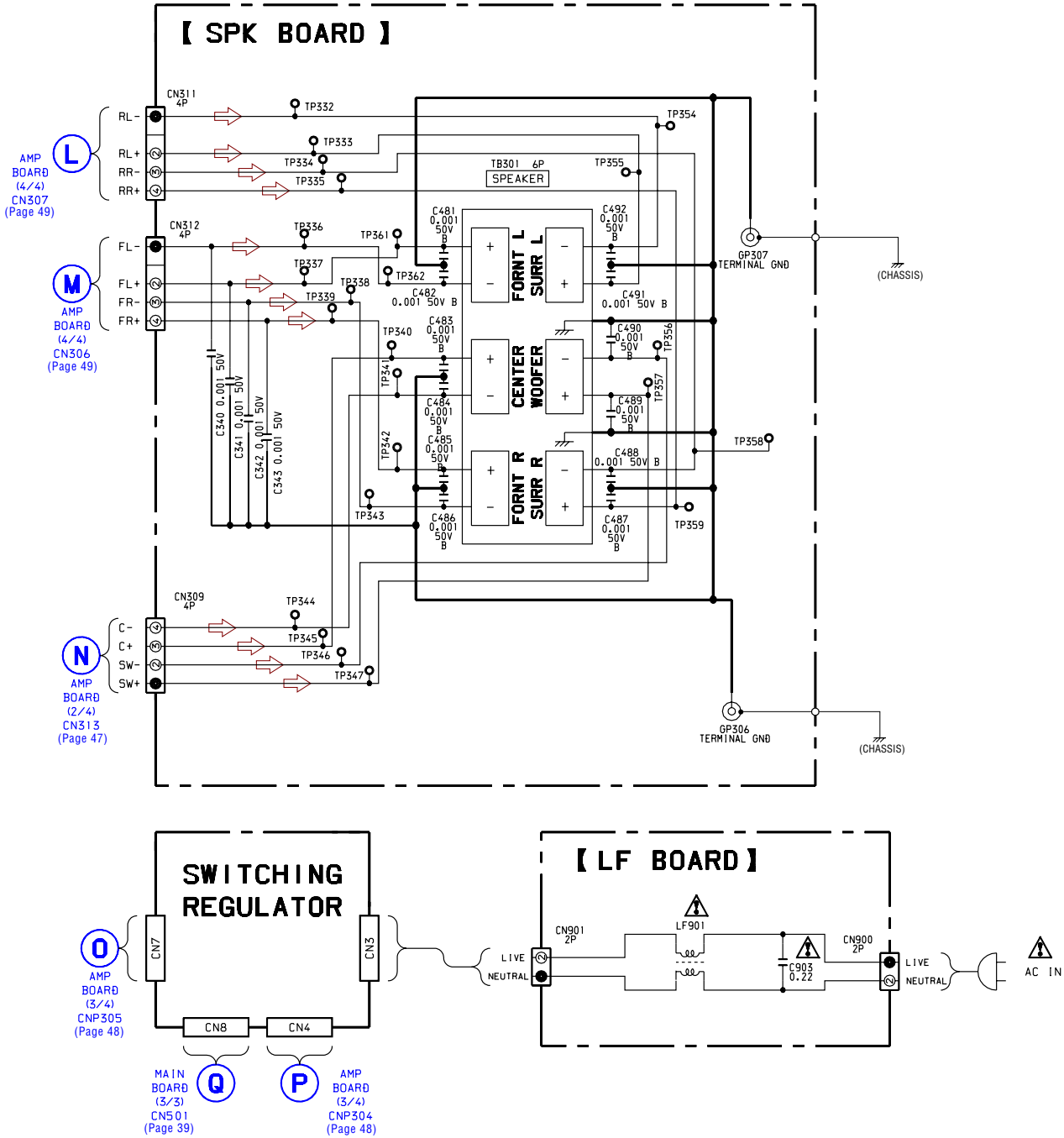
5-24. SCHEMATIC DIAGRAM – AMP SECTION (4/4) – • See page 69 for IC Pin Function Description.



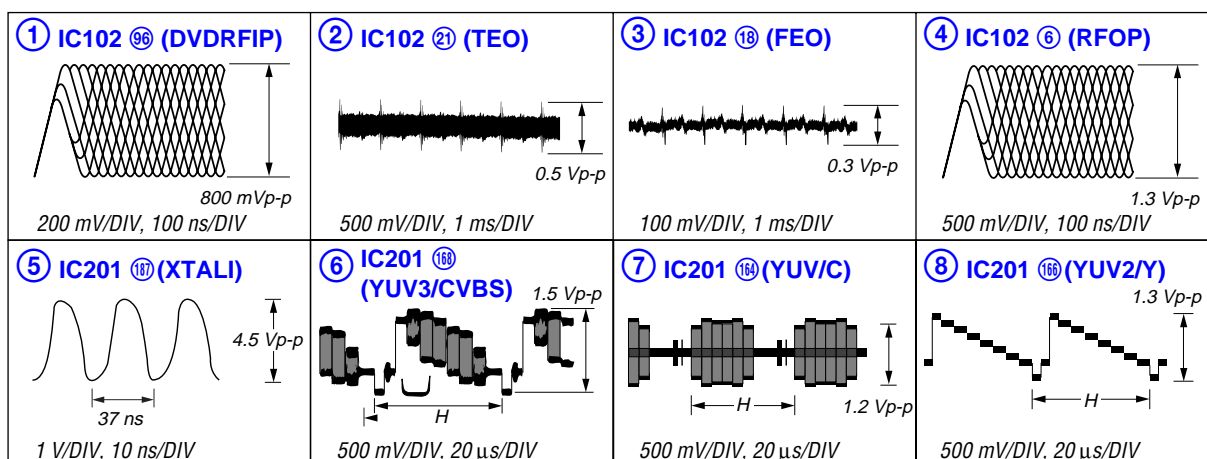
5-25. PRINTED WIRING BOARD – SPK/LF SECTION – • See page 21 for Circuit Boards Location.



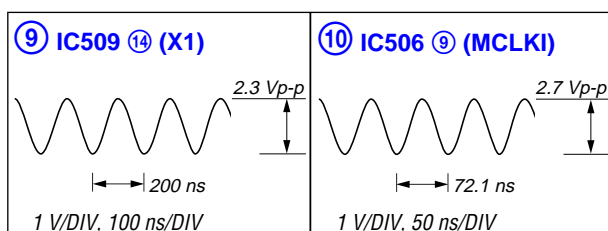
5-26. SCHEMATIC DIAGRAM – SPK/LF SECTION –



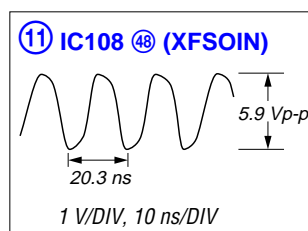
• Waveforms
– DMB09 Board –



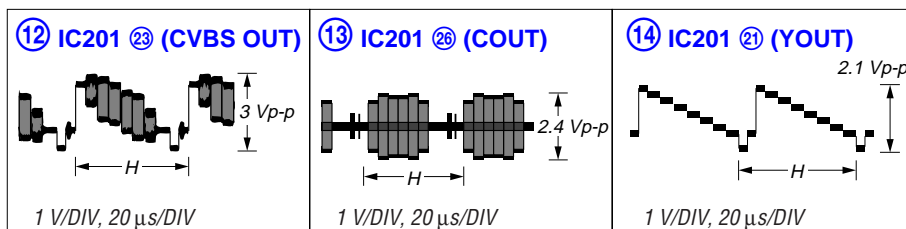
– MAIN Board –



– AMP Board –

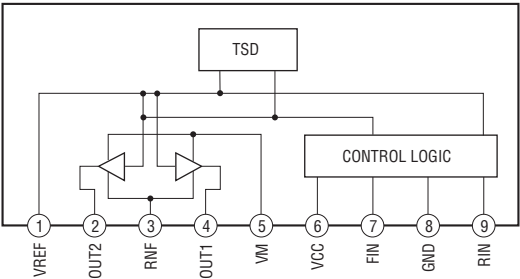


– IO Board –

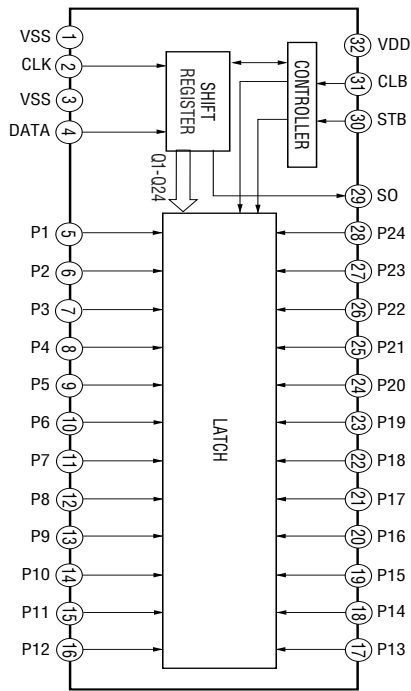


HCD-BC150/BC250

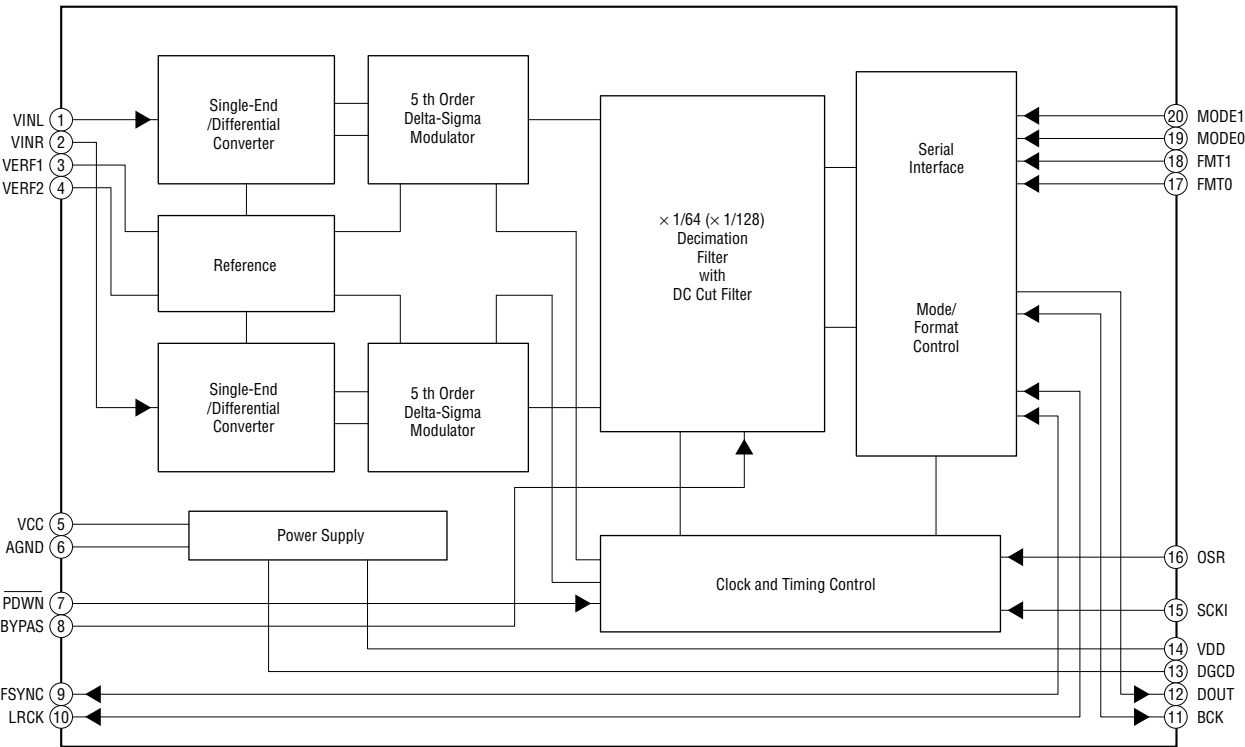
- IC Block Diagrams
 - TRANSLATION Board –
IC701, 711 BA6956AN



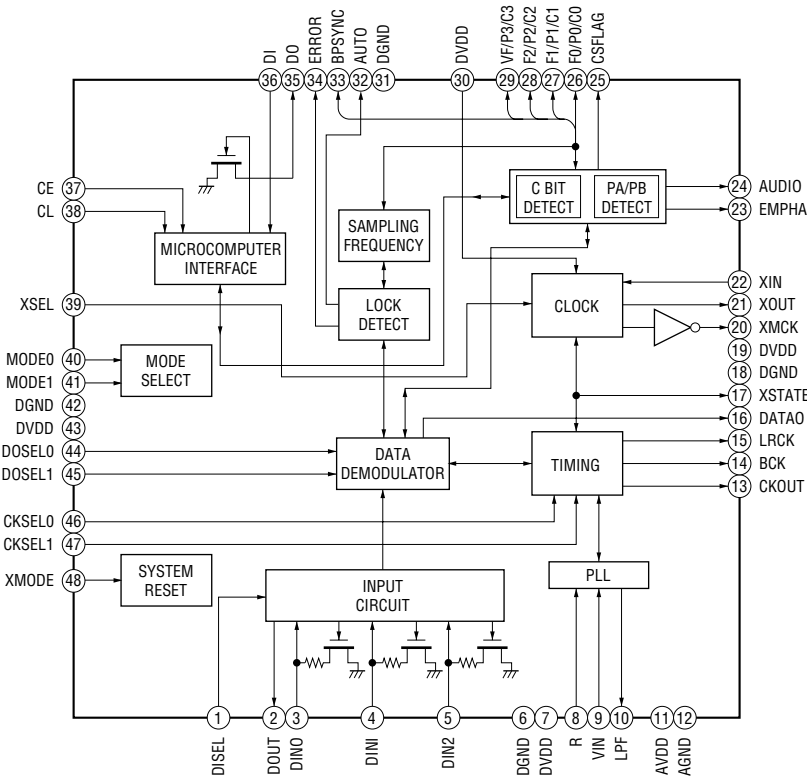
- PANEL Board –
IC802 BU2152FS



- MAIN Board –
IC501 PCM1802DBR

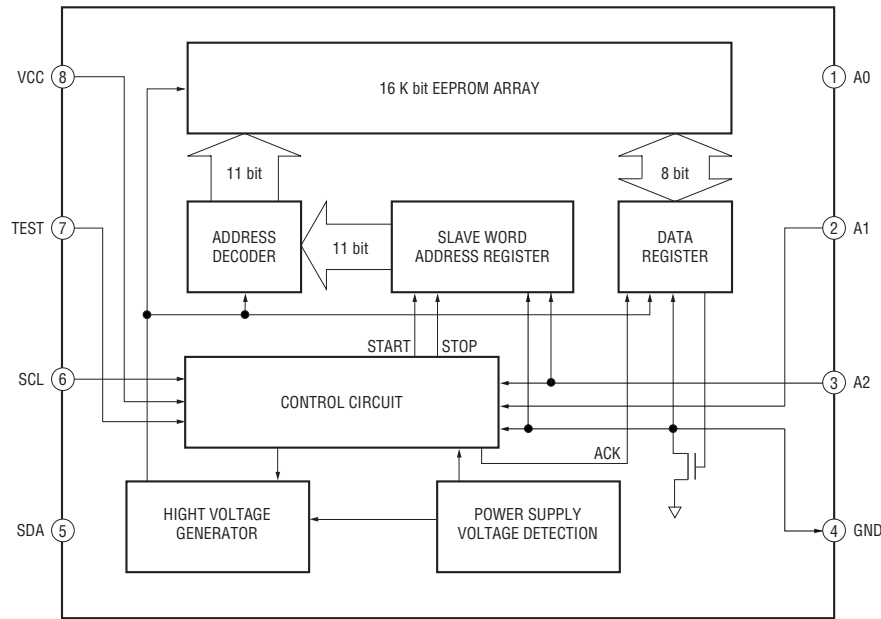


IC505 LC89056W-E



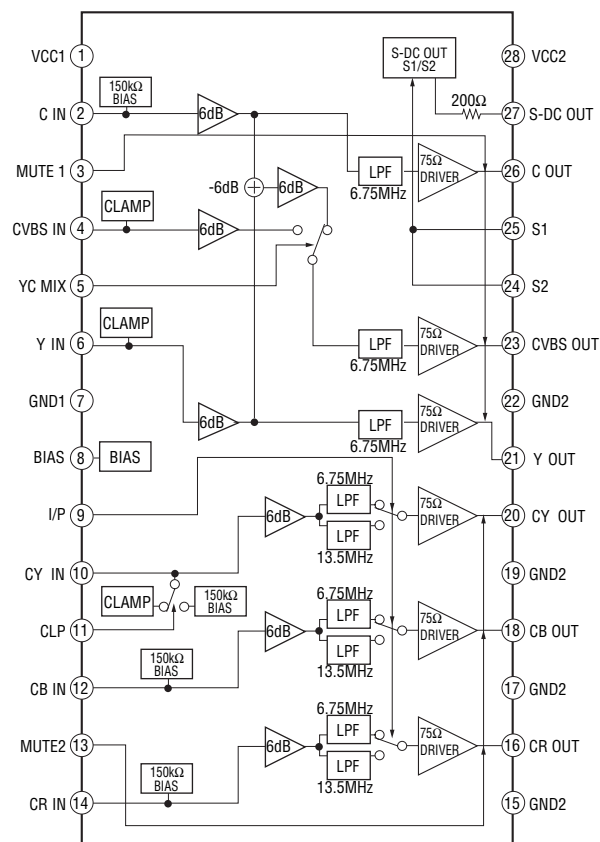
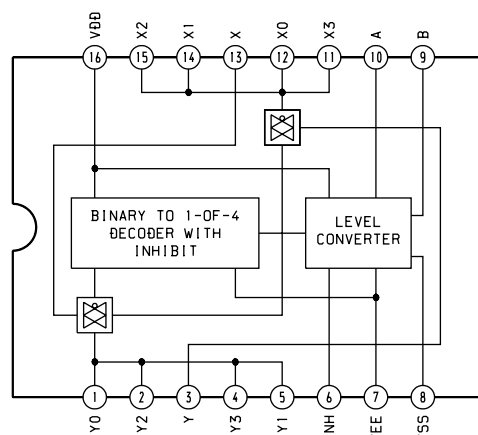
– DMB09 Board –

IC205 BR24L16F-WE2



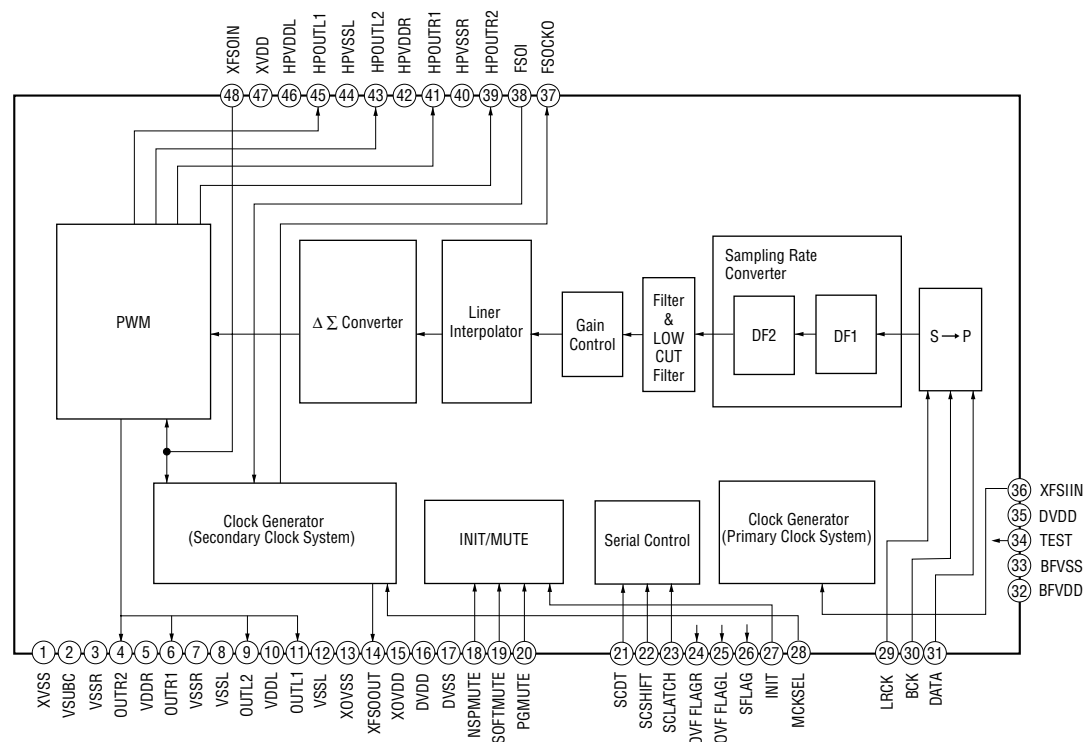
– IO Board –

IC201 MM1623BFBE

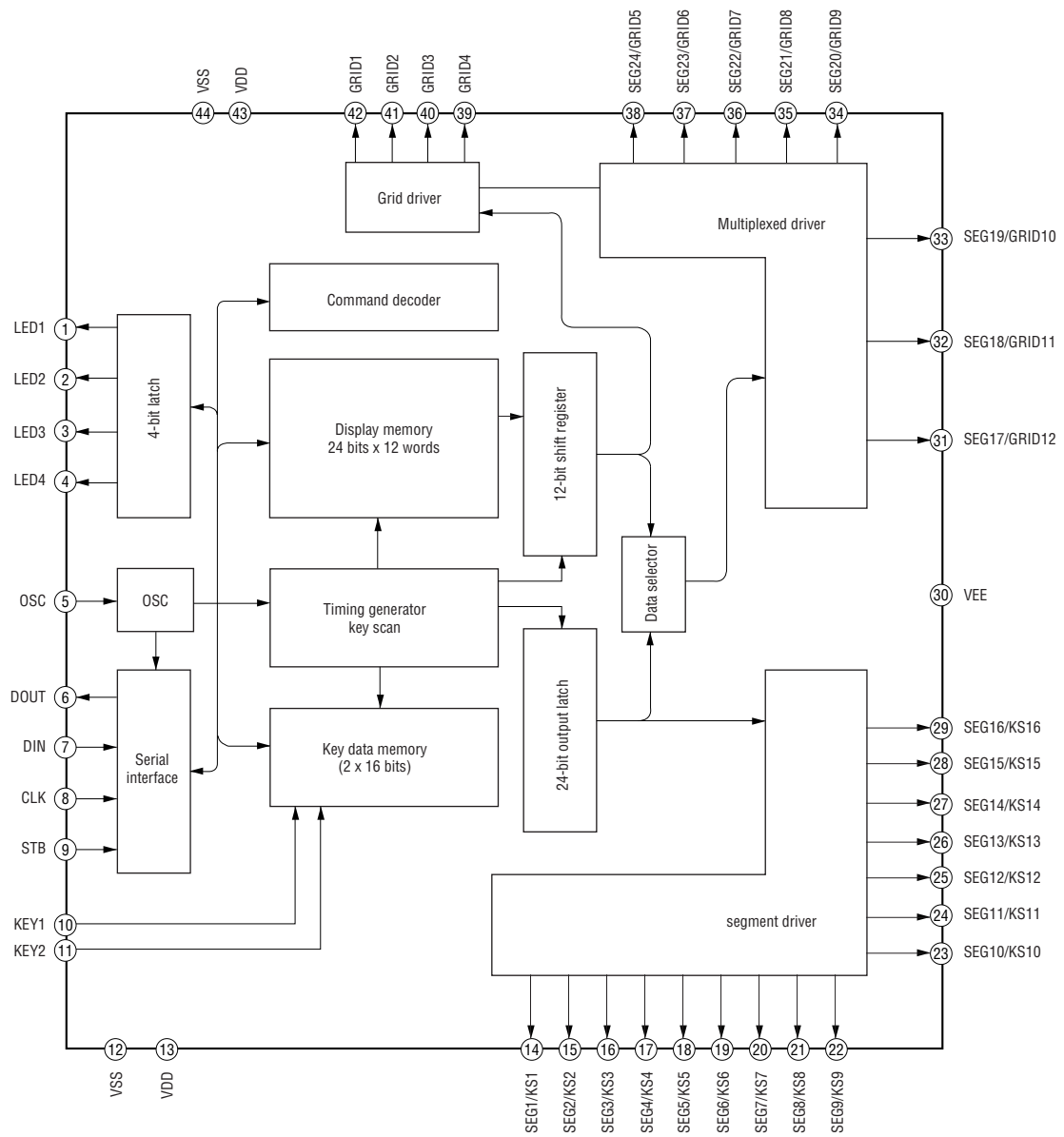


– AMP Board –

IC108, 109, 110 CXD9788AR



– FL Board –
IC803 PT6315



• IC Pin Function Description

• DMB09 BOARD IC102 CXD9780R (CD/DVD/RF AMP, FOCUS/TRACKING ERROR AMP)

| Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|---|
| 1 | WOBS0 | O | Wobble signal output (Not used) |
| 2 | WVDD | — | Wobble power |
| 3 | AGNDX | — | Grund |
| 4 | AGNDX | — | Grund |
| 5 | AVDD0 | — | Power for RF output |
| 6 | RFOP | O | RF positive output |
| 7 | RFON | O | RF negative output |
| 8 | AGNDO | — | Grund for RF output |
| 9 | TM1 | I | Trimming pin for ALPC1 (Not used) |
| 10 | TM2 | I | Trimming pin for ALPC1 (Not used) |
| 11 | TM3 | I | Trimming pin for ALPC2 (Not used) |
| 12 | AGNDT | — | Grund for Trimming PAD |
| 13 | TM4 | I | Trimming pin for ALPC2 (Not used) |
| 14 | AVDDT | — | Power for Trimming PAD |
| 15 | V2REFO | O | Reference voltage 2.8V |
| 16 | VREFO | O | Reference voltage 1.4V |
| 17 | V20 | O | Reference voltage 2.0V |
| 18 | FEO | O | Focusing erro output |
| 19 | LVL | O | RF level output |
| 20 | CS0 | O | Center servo signal output |
| 21 | TEO | O | Tracking error output |
| 22 | VDDP | — | Power for PAD |
| 23 | DEFECT | O | Flag of bad data output status |
| 24 | LRFRP | O | Low frequency RF ripple output |
| 25 | HRFRP | O | High frequency RF ripple output |
| 26 | CRTP | — | RF top envelop filter capacitor connecting |
| 27 | CRTPLP | — | Defect level filter capacitor connecting (Not used) |
| 28 | TRLPA | — | Low -pass filter capacitor connecting (Not used) |
| 29 | TRLP | — | Low -pass filter capacitor connecting |
| 30 | HTRC | O | high speed track counting digital output |
| 31 | GNDP | — | Grund for PAD |
| 32 | DPFN | — | Not used |
| 33 | DPFO | — | DPD amplifier output (Not used) |
| 34 | AGNDX | — | Ground |
| 35 | AGNDX | — | Ground (Not used) |
| 36 | AGNDX | — | Ground (Not used) |
| 37 | VDD | — | Serial I/O power |
| 38 | VFO013 | I | DVD-RAM Header signal |
| 39 | GND | — | Serial I/O grund |
| 40 | UDGATE | I | Control signal for DVD-RAM |
| 41 | HDGATE | I | Control signal for DVD-RAM |
| 42 | IO0 | I/O | General purpose input/output |
| 43 | IO1 | I/O | General purpose input/output (Not used) |
| 44 | IO2 | I/O | General purpose input/output |
| 45 | IO3 | I/O | General purpose input/output |
| 46 | IO4 | I/O | General purpose input/output |
| 47 | IO5 | I/O | General purpose input/output |

| Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|---|
| 48 | IO6 | I/O | General purpose input/output |
| 49 | IO7 | I/O | General purpose input/output |
| 50 | IO8 | I/O | General purpose input/output |
| 51 | IO9 | I/O | General purpose input/output |
| 52 | IOA | I/O | General purpose input/output |
| 53 | IOB | I/O | General purpose input/output (Not used) |
| 54 | VDDS | — | Serial I/O power |
| 55 | XCK16M | I | 16.9MHz for verification (Not used) |
| 56 | SCLK | I | RF serial clock input |
| 57 | GNDS | — | Serial I/O ground |
| 58 | SDEN | I | RF serial data enable |
| 59 | SDATA | I/O | RF serial data IO |
| 60 | RST | I | Reset (active high) |
| 61 | OPDMUTE | I | DPD mute control input |
| 62 | AGNDP | — | DPD and Peak-Detection ground |
| 63 | AGNDX | — | Ground |
| 64 | AVDDP | — | DPD and Peak-Detection power |
| 65 | AGNDF | — | DPD and Peak-Detection ground |
| 66 | VCON | O | Not used |
| 67 | AVDDF | — | DPD and Peak-Detection power |
| 68 | AGNDX | — | Ground |
| 69 | AVDDM | — | DPD power |
| 70 | COSPHI | O | Amplifier output for hall sensor signal (Not used) |
| 71 | HALLCOS | I | Negative input of amplifier for hall sensor signal (Not used) |
| 72 | REFCOS | I | Positive input of amplifier for hall sensor signal (Not used) |
| 73 | AGNDM | — | DPD ground |
| 74 | HALLSIN | I | Negative input of amplifier for hall sensor signal (Not used) |
| 75 | REFSIN | I | Positive input of amplifier for hall sensor signal (Not used) |
| 76 | SINPHI | O | Amplifier output for hall sensor signal (Not used) |
| 77 | SWO | O | Output from mux of SW1 & SW2 |
| 78 | SW2 | I | External input for servo input select |
| 79 | SW1 | I | External input for servo input select |
| 80 | MOP | O | Not used |
| 81 | MON | O | Not used |
| 82 | AGNDX | — | Ground |
| 83 | AGNDX | — | Ground |
| 84 | CEON | — | RF offset cancellation capacitor connecting |
| 85 | CEOP | — | RF offset cancellation capacitor connecting |
| 86 | OSN | — | RF AGC loop capacitor connecting for DVD-ROM (Not used) |
| 87 | REGCU | — | RF AGC loop capacitor connecting for DVD-ROM (Not used) |
| 88 | RFFGC | — | RF AGC loop capacitor connecting for DVD-ROM |
| 89 | OSP | — | RF offset cancellation capacitor connecting |
| 90 | OSN | — | RF offset cancellation capacitor connecting |
| 91 | CDD | I | AC coupled CD RF signal input D (Not used) |
| 92 | CDC | I | AC coupled CD RF signal input C (Not used) |
| 93 | CDB | I | AC coupled CD RF signal input B (Not used) |
| 94 | CDA | I | AC coupled CD RF signal input A (Not used) |

| Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|--|
| 95 | DVDRFIN | I | AC coupled DVD RF signal input RFIN (Not used) |
| 96 | DVDRFIP | I | AC coupled DVD RF signal input RFIP |
| 97 | DVDD | I | AC coupled DVD RF signal input D |
| 98 | DVDC | I | AC coupled DVD RF signal input C |
| 99 | DVDB | I | AC coupled DVD RF signal input B |
| 100 | DVDA | I | AC coupled DVD RF signal input A |
| 101 | MA | I | AC coupled DVD-RAM main-beam RFsignal input A |
| 102 | MB | I | AC coupled DVD-RAM main-beam RFsignal input B |
| 103 | MC | I | AC coupled DVD-RAM main-beam RFsignal input C |
| 104 | MD | I | AC coupled DVD-RAM main-beam RFsignal input D |
| 105 | SA | I | AC coupled DVD-RAM sub-beam RFsignal input A |
| 106 | SB | I | AC coupled DVD-RAM sub-beam RFsignal input B |
| 107 | AGND | — | VGA and equalizer ground |
| 108 | IR | — | EXternal current bias resistor (R=15k) |
| 109 | AVDO | — | VGA and equalizer power |
| 110 | SC | I | AC coupled DVD-RAM sub-beam RFsignal input C |
| 111 | SD | I | AC coupled DVD-RAM sub-beam RFsignal input D |
| 112 | CDFDP | I | CD focusing error positive input (Not used) |
| 113 | CDFDN | I | CD focusing error positive input (Not used) |
| 114 | SVDO | — | Servo power |
| 115 | TPI | I | 3 beam satellite PD signal negative input (Not used) |
| 116 | TNI | I | 3 beam satellite PD signal negative input (Not used) |
| 117 | SGND | — | Servo ground |
| 118 | WGAND | — | Wobble ground |
| 119 | AGC1 | — | Wobble AGC loop capacitor |
| 120 | WAVDO | — | Wobble power |
| 121 | AGC2 | — | Wobble AGC loop capacitor (Not used) |
| 122 | AGC3 | — | Wobble AGC loop capacitor (Not used) |
| 123 | MDI2 | I | Laser power monitor input |
| 124 | MDI1 | I | Laser power monitor input |
| 125 | LD01 | O | Laser driver output |
| 126 | LDO2 | O | Laser driver output |
| 127 | RFSUBO | O | Header push-pull RF output signal |
| 128 | WGND | — | Wobble ground |

• DMB09 BOARD IC201 CXD9781R (DVD SYSTEM PROCESSOR, DVD DECODER, DIGITAL SERVO PROCESSOR)

| Pin No. | Pin Name | I/O | Description |
|----------|-------------|-----|---|
| 1 | IREF | I | Current reference input |
| 2 | PLLVS | — | Terminal Ground |
| 3 | LPIOP | O | Positive output of the low pass filter |
| 4 | LOION | O | Negative output of the low pass filter |
| 5 | LPFON | O | Negative output of loop filter amplifier |
| 6 | LPFIP | I | Positive input of loop filter amplifier |
| 7 | LPFIN | I | Negative input of loop filter amplifier |
| 8 | LPFOP | O | Positive output of loop filter amplifier |
| 9 | JITFO | O | RF jitter meter output |
| 10 | JITFN | I | Negative input of operation amplifier for RF jitter meter |
| 11 | PLLVD3 | — | Power Supply (+3.3V) |
| 12 | FOO | O | FR signal output to Motor Driver (IC101) |
| 13 | TRD | O | TR signal output to Motor Driver (IC101) |
| 14 | TROPREOWM | O | TROPREOWM signal output to Motor Driver (IC101) |
| 15 | PWMOUT1 | — | Not used |
| 16 | PWMOUT2 | O | PWMUTE signal output to Motor Driver (IC102) |
| 17 | DVDD2 | — | Power Supply (+2.5V) |
| 18 | DMD | O | DM signal output to Motor Driver (IC101) |
| 19 | FMD | O | FM signal output to Motor Driver (IC101) |
| 20 | DVSS | — | Terminal Ground |
| 21 | FG | — | Not used |
| 22 to 27 | HIGHA0 to 5 | O | Address bus 8-13 output to PROM (IC204) |
| 28 | DVSS | — | Terminal Ground |
| 29 to 30 | HIGHA6 to 7 | O | Address bus 14-15 output to PROM (IC204) |
| 31 to 34 | AD7 to 4 | I | Data bus 7-4 input from PROM (IC204) |
| 35 | DVDD3 | — | Power Supply (+3.3V) |
| 36 to 39 | AD3 to 0 | I | Data bus 3-0 input from PROM (IC204) |
| 40 to 41 | IOA0 to 1 | O | Address bus 0-1 output to PROM (IC204) |
| 42 | DVDD2 | — | Power Supply (+2.5V) |
| 43 to 48 | IOA2 to 7 | O | Address bus 2-7 output to PROM (IC204) |
| 49 to 50 | A16 to 17 | O | Address bus 16-17 output to PROM (IC204) |
| 51 to 53 | IOA18 to 20 | O | Address bus 18-20 output to PROM (IC204) |
| 54 | APLLVS | — | Terminal Ground |
| 55 | APLLVD | — | Power Supply (+3.3V) |
| 56 | ALE | — | Address bus latch enable (Not used) |
| 57 | IOOE | O | OE signal output to PROM (IC204) |
| 58 | IOWA | O | WE signal output to PROM (IC204) |
| 59 | IOCS | O | CE signal output to PROM (IC204) |
| 60 | VDSS | — | Terminal Ground |
| 61 | UP12 | O | VIFBUSY signal output to SYSTEM CONTROLLER (IC509) |
| 62 | UP13 | O | DVD SCO signal output to SYSTEM CONTROLLER (IC509) |
| 63 | UP14 | I | DVD SOD signal input from SYSTEM CONTROLLER (IC509) |
| 64 | UP15 | I | DVD XIFCS signal input from SYSTEM CONTROLLER (IC509) |
| 65 | UP16 | O | SCL signal output to EEPROM (IC205) |
| 66 | DVDD3 | — | Power Supply (+3.3V) |
| 67 | UP16 | O | SDA signal output to EEPROM (IC205) |
| 68 | UP30 | I | V2P8 signal input from RF AMP (IC102) |

| Pin No. | Pin Name | I/O | Description |
|------------|------------|-----|--|
| 69 | UP31 | O | DVD SIO signal output to SYSTEM CONTROLLER (IC509) |
| 70 | INT0 | I | Interrupt0 |
| 71 | IR | I | IR control signal input |
| 72 | DVDD2 | — | Power Supply (+2.5V) |
| 73 | UP34 | O | RXD output signal |
| 74 | UP35 | O | TXD output signal |
| 75 | UWA | I | Write storobe |
| 76 | URO | I | Read storobe |
| 77 | DVSS | — | Terminal Ground |
| 78 to 81 | RD7 to 4 | I | Data bus 7-4 from SD-RAM (IC206) |
| 82 | DVDD2 | — | Power Supply (+2.5V) |
| 83 to 86 | RD3 to 0 | O | Data bus 3-0 from SD-RAM (IC206) |
| 87 | AWE | O | WE signal output to SD-RAM (IC206) |
| 88 | CAS | O | CAS signal output to SD-RAM (IC206) |
| 89 | RAS | O | RAS signal output to SD-RAM (IC206) |
| 90 | RCS | O | RCS signal output to SD-RAM (IC206) |
| 91 | BAO | O | BAO signal output to SD-RAM (IC206) |
| 92 | DVSS | — | Terminal Ground |
| 93 to 96 | RD15 to 12 | I/O | Data bus 15-12 from SD-RAM (IC206) |
| 97 | DVDD3 | — | Power Supply (+3.3V) |
| 98 to 101 | RD11 to 8 | I/O | Data bus 11-8 from SD-RAM (IC206) |
| 102 | DVSS | — | Terminal Ground |
| 103 | CLK | O | CLK signal output to SD-RAM (IC206) |
| 104 | CLE | O | CLE signal output to SD-RAM (IC206) |
| 105 to 107 | RA11,10,8 | O | Address bus 11,10,8 output to SD-RAM (IC206) |
| 108 | DMVDD3 | — | Power Supply (+3.3V) |
| 109 | DMVSS | — | Terminal Ground |
| 110 | RA7 | O | Address bus 7 output to SD-RAM (IC206) |
| 111 | DMVDD3 | — | Power Supply (+3.3V) |
| 112 to 114 | RA6 to 4 | O | Address bus 6-4 output to SD-RAM (IC206) |
| 115 | VDSS | — | Terminal Ground |
| 116 | DQM1 | O | DQM1 signal output to SD-RAM (IC206) |
| 117 | DQM0 | O | DQM2 signal output to SD-RAM (IC206) |
| 118 | BA1 | O | BA1 signal output to SD-RAM (IC206) |
| 119 | RA10 | O | Address bus 10 output to SD-RAM (IC206) |
| 120 | DVDD2 | — | Power Supply (+2.5V) |
| 121 to 124 | RA0 to 3 | O | Address bus 0-3 output to SD-RAM (IC206) |
| 125 | VDSS | — | Terminal Ground |
| 126 to 129 | RD31 to 28 | — | Not used (open) |
| 130 | DVSS | — | Terminal Ground |
| 131 to 134 | RD27 to 24 | — | Not used (open) |
| 135 | DVSS | — | Terminal Ground |
| 136,137 | DQM3,2 | — | Not used (open) |
| 138 | RD23 | — | Not used (open) |
| 139 | RD22 | I | DRAM data input |
| 140 | DVDD2 | — | Power Supply (+2.5V) |
| 141 | RD21 | I | DRAM data input |

| Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|--|
| 142 | RD20 | I | DRAM data input |
| 143 | RD19 | I | DISCEXT signal |
| 144 | RD18 | — | Not used (open) |
| 145 | DVSS | — | Terminal Ground |
| 146 | RD17 | I | DRAM data input |
| 147 | RD16 | I | DRAM data input |
| 148 | ABCK | O | Audio bit clock (Not used) |
| 149 | ALRCK | I | Audio left/right channel clock (Not used) |
| 150 | DVDD3 | — | Power Supply (+3.3V) |
| 151 | ACLK | I | Audio DAC master clock (Not used) |
| 152 | MC-DATA | I | Microphone serial input (Not used) |
| 153 | SPDIF | O | SPDIF output |
| 154 | ASDATA0 | I | Audio serial data (Not used) |
| 155 | ASDATA1 | I | Audio serial data (Not used) |
| 156 | ASDATA2 | I | Audio serial data (Not used) |
| 157 | ASDATA3 | I | Audio serial data (Not used) |
| 158 | ASDATA4 | I | Audio serial data (Not used) |
| 159 | BACVDDC | — | 3.3V power pin for VIDEO DAC circuitry |
| 160 | VREF | I | Bandgap reference voltage (Not used) |
| 161 | FS | O | Full scale adjustment |
| 162 | YUV/CIN | O | Video data output bit0/Compensation capacitor (Not used) |
| 163 | DACVSSC | — | Terminal Ground |
| 164 | YUV/C | O | CHROMA signal output to VIDEO AMP (IC201) |
| 165 | DACVDDDB | — | Power Supply (+3.3V) |
| 166 | YUV2/Y | O | Y signal output to VIDEO AMP (IC201) |
| 167 | DACVSSB | O | Terminal Ground |
| 168 | YU3/CVBS | O | VIDEO signal output to VIDEO AMP (IC201) |
| 169 | DACVDDA | — | Power Supply (+3.3V) |
| 170 | YUV4/G | O | G signal output to VIDEO AMP (IC201) |
| 171 | DACVSSA | — | Terminal Ground |
| 172 | YUV5/B | O | B signal output to VIDEO AMP (IC201) |
| 173 | YUV6/R | O | R signal output to VIDEO AMP (IC201) |
| 174 | IEC | I | Microcontroller ICE mode enable (Not used) |
| 175 | BKANK | I/O | Video blank area, active low |
| 176 | VSYN | I/O | Vertical sync (Not used) |
| 177 | YUV7 | I/O | Video data output (Not used) |
| 178 | DVSS | — | Terminal Ground |
| 179 | HSYN | I/O | Horizontal sync (Not used) |
| 180 | SPMCLK | I | Audio DAC master clock of SPDIF input (Not used) |
| 181 | SPDATA | I | IPSEL signal input from SYSTEM CONTROLLER (IC509) |
| 182 | DVDD2 | — | Power Supply (+2.5V) |
| 183 | SPLRCK | I | Audio left/right channel clock of SPDIF input (Not used) |
| 184 | SPBCK | I | Not used (open) |
| 185 | DVDD3 | — | Power Supply (+3.3V) |
| 186 | XTALO | O | Oscillator output signal |
| 187 | XTALI | I | Oscillator input signal |
| 188 | PRST | I | MTRST signal input from SYSTEM CONTROLLER (IC509) |

| Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|---|
| 189 | DVSS | — | Terminal Ground |
| 190 | VFO13 | O | Not used (open) |
| 191 | IDGATE | O | Not used (open) |
| 192 | DVDD3 | — | Power Supply (+3.3V) |
| 193 | UPGATE | O | Not used (open) |
| 194 | WOBSI | O | Not used (open) |
| 195 | SDATA | I | DATA RF signal input from RF AMP (IC102) |
| 196 | SDEN | O | SDEN signal output to RF AMP (IC102) |
| 197 | SLCK | O | CLK RF signal output to RF AMP (IC102) |
| 198 | BDO | I | BOO signal input from RF AMP (IC102) |
| 199 | ADCVSS | — | Terminal Ground |
| 200 | ADIN | I | ADIN signal input from RF AMP (IC102) |
| 201 | RFSUBI | I | Not used (open) |
| 202 | TEZISLV | I | Tracking error zero crossing low pass input |
| 203 | TEI | I | TE signal input from RF AMP (IC102) |
| 204 | CSO | I | CSO signal input from RF AMP (IC102) |
| 205 | FEI | I | FE signal input from RF AMP (IC102) |
| 206 | RFLEVEL | I | PI signal input from RF AMP (IC102) |
| 207 | RFAPDC | I | RFRP signal input from RF AMP (IC102) |
| 208 | RFAPAC | I | RFRP signal input from RF AMP (IC102) |
| 209 | HRFZC | I | RFZC signal input from RF AMP (IC102) |
| 210 | PWMVREF | I | VIP4 signal input from RF AMP (IC102) |
| 211 | PWM2VREF | I | V2P8 signal input from RF AMP (IC102) |
| 212 | ADCVDD3 | — | Power Supply (+3.3V) |
| 213 | RFOTSLVP | O | Not used (open) |
| 214 | RFOTSLVN | O | Not used (open) |
| 215 | RFIN | I | RFIN signal input from RF AMP (IC102) |
| 216 | RFIP | I | RFIP signal input from RF AMP (IC102) |

• MAIN BOARD IC506 CXD9720BQ (DIGITAL AUDIO PROCESSOR)

| Pin No. | Pin Name | I/O | Description |
|----------|--------------|-----|--|
| 1 | VSS | — | Ground terminal |
| 2 | XRST | I | System reset signal input from the system controller “L”: reset |
| 3 | EXTIN | I | Master clock signal input terminal Not used |
| 4 | LRCKI3 | I | L/R sampling clock signal input terminal Not used |
| 5 | VDDI | — | Power supply terminal (+2.6V) |
| 6 | BCKI3 | I | Bit clock signal input terminal Not used |
| 7 | PLOCK | O | Internal PLL lock signal output terminal Not used |
| 8 | VSS | — | Ground terminal |
| 9 | MCLK1 | I | System clock input terminal (13.9 MHz) |
| 10 | VDDI | — | Power supply terminal (+2.6V) |
| 11 | VSS | — | Ground terminal |
| 12 | MCLK2 | O | System clock output terminal (13.9 MHz) |
| 13 | MS | I | Master/slave setting terminal “L”: internal clock, “H”: external clock Fixed at “L” in this set |
| 14 | SCKOUT | O | Internal system clock output to the D/A converter |
| 15 | LRCKI1 | I | L/R sampling clock signal input from the digital audio interface receiver |
| 16 | VDDE | — | Power supply terminal (+3.3V) |
| 17 | BCKI1 | I | Bit clock signal input from the digital audio interface receiver |
| 18 | SDI1 | I | Audio serial data input from the A/D converter |
| 19 | LRCKO | O | L/R sampling clock signal output to the D/A converter |
| 20 | BCKO | O | Bit clock signal output to the D/A converter |
| 21 | VSS | — | Ground terminal |
| 22 | KFSIO | I | Audio clock signal input from the digital audio interface receiver |
| 23 to 25 | SDO1 to SDO3 | O | Audio serial data output to the D/A converter |
| 26 | SDO4 | O | Audio serial data output terminal Not used |
| 27 | SPDIF | O | SPDIF signal output terminal Not used |
| 28 | LRCKI2 | I | L/R sampling clock signal input from the digital audio interface receiver |
| 29 | BCKI2 | I | Bit clock signal input from the digital audio interface receiver |
| 30 | SDI2 | I | Audio serial data input from the digital audio interface receiver |
| 31 | VSS | — | Ground terminal |
| 32 | HACN | O | Acknowledge signal output to the system controller |
| 33 | HDIN | I | Serial data input from the system controller |
| 34 | HCLK | I | Serial data transfer clock signal input from the system controller |
| 35 | HDOUT | O | Serial data output to the system controller |
| 36 | HCS | I | Chip select input from the system controller |
| 37 | GP12 | I | Write signal input from the system controller |
| 38 | GP13 | O | SD-RAM chip enable output terminal Not used |
| 39 | GP14 | O | Row address strobe signal output terminal Not used |
| 40 | VDDI | — | Power supply terminal (+2.6V) |
| 41 | VSS | — | Ground terminal |
| 42 | GP15 | O | Column address strobe signal output terminal Not used |
| 43 | OE0 | O | Output terminal of data input/output mask Not used |
| 44 | CS0 | O | Chip select signal output to the S-RAM |
| 45 | WE0 | O | Write enable signal output to the S-RAM |
| 46 | VDDE | — | Power supply terminal (+3.3V) |
| 47 | WMD1 | I | External memory wait mode setting terminal Fixed at “H” in this set |
| 48 | VSS | — | Ground terminal |

| Pin No. | Pin Name | I/O | Description |
|------------|----------------|-----|--|
| 49 | WMD0 | I | External memory wait mode setting terminal Fixed at "H" in this set |
| 50 | PAGE2 | O | External memory page selection signal output terminal Not used |
| 51 | VSS | — | Ground terminal |
| 52, 53 | PAGE1, PAGE0 | O | External memory page selection signal output terminal Not used |
| 54 | BOOT | I | Boot mode control signal input terminal Not used |
| 55 | TST1 | O | Not used |
| 56 | BST | I | Boot strap signal input from the system controller |
| 57 | MOD1 | I | Operation mode setting terminal "L": enhanced mode, "H": normal mode Fixed at "H" in this set |
| 58 | MOD0 | I | Operation mode setting terminal "L": single chip mode, "H": can not use Fixed at "L" in this set |
| 59 | EXLOCK | I | PLL lock error signal and data error flag input from the digital audio interface receiver |
| 60 | VDDI | — | Power supply terminal (+2.6V) |
| 61 | VSS | — | Ground terminal |
| 62, 63 | A17, A16 | O | Address signal output terminal Not used |
| 64 to 66 | A15 to A13 | O | Address signal output to the S-RAM |
| 67 | GP10 | I | L/R sampling clock signal input terminal |
| 68 | GP9 | O | Read ready signal output to the system controller |
| 69 | GP8 | I | Channel status bit 1 input from the digital audio interface receiver |
| 70 | VDDI | — | Power supply terminal (+2.6V) |
| 71 | VSS | — | Ground terminal |
| 72 to 75 | D15 to D12 | I/O | Two-way data bus with the S-RAM |
| 76 | VDDE | — | Power supply terminal (+3.3V) |
| 77to 80 | D11 to D8 | I/O | Two-way data bus with the S-RAM |
| 81 | VSS | — | Ground terminal |
| 82 to 85 | A9, A12 to A10 | O | Address signal output to the S-RAM |
| 86 | TDO | O | Simplicity emulation data output terminal Not used |
| 87 | TMS | I | Simplicity emulation data input start and end terminal Not used |
| 88 | XTRST | I | Simplicity emulation non-sync break signal input terminal Not used |
| 89 | TCK | I | Simplicity emulation clock signal input terminal Not used |
| 90 | TDI | I | Simplicity emulation data input terminal Not used |
| 91 | VSS | — | Ground terminal |
| 92 to 97 | A8 to A3 | O | Address signal output to the S-RAM |
| 98, 99 | D7, D6 | I/O | Two-way data bus with the S-RAM |
| 100 | VDDI | — | Power supply terminal (+2.6V) |
| 101 | VSS | — | Ground terminal |
| 102 to 105 | D5 to D2 | I/O | Two-way data bus with the S-RAM |
| 106 | VDDE | — | Power supply terminal (+3.3V) |
| 107, 108 | D1, D0 | I/O | Two-way data bus with the S-RAM |
| 109, 110 | A2, A1 | O | Address signal output to the S-RAM |
| 111 | VSS | — | Ground terminal |
| 112 | A0 | O | Address signal output to the S-RAM |
| 113 | PM | I | PLL initialize signal input from the system controller |
| 114, 115 | SDI3, SDI4 | I | Audio serial data input terminal Not used |
| 116 | SYNC | I | Sync/non-sync setting terminal "L": sync, "H": non-sync Fixed at "H" in this set |
| 117 | TST2 | I | Not used |

| Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|-------------------------------|
| 118 | GP11 | I | Not used |
| 119 | TST3 | I | Not used |
| 120 | VDDI | — | Power supply terminal (+2.6V) |

• MAIN BOARD IC509 uPD703261YGF-S07-JBT-A (SYSTEM CONTROLLER)

| Pin No. | Pin Name | I/O | Description |
|---------|-------------------|-----|--|
| 1 | IP SEL | O | Interless/Progressive |
| 2 | MTRST | O | Mediatech DVD uCOM reset |
| 3 | AVREF0 | — | Analog reference voltage for A/D converter |
| 4 | AVSS | — | Analog ground |
| 5 | V CONTROL | O | Voltage control for amp |
| 6 | AC_ON/OFF | O | Control Relay for power trancsformer |
| 7 | AVREF1 | — | Analog reference voltage for D/A converter |
| 8 | DVD XIFCS | I | Media tech chip select |
| 9 | XIFBUSY | O | Media tech busy |
| 10 | FLASH0 | I | Flash programing mode (pull down) |
| 11 | VDD | — | Power supply |
| 12 | REGC | — | Regulator control-connect 4.7uF |
| 13 | VSS | — | Ground |
| 14 | X1 | I | Crystal input for main cock |
| 15 | X2 | — | Crystal output for main clock |
| 16 | RESET | I | System reset signal input |
| 17 | XT1 | I | Crystal for sub clock |
| 18 | XT2 | — | Crystal for sub clock |
| 19 | DVD POWER | O | DVD power on/off |
| 20 | KEY INT | I | Wakeup from ECO mode by key input |
| 21 | RM_INT | I | Wakeup from ECO mode by sircs input |
| 22 | (Can't USE) | I | Can't Use Port |
| 23 | AC_CUT | I | Detect AC-CUT (primary power off) |
| 24 | DVD SOD | I | Media tech |
| 25 | DVD SIO | O | Media tech |
| 26 | DVD SCO | I | Media tech clock * input from DVD micon |
| 27 | FL_D_OUT/LED_DATA | O | FL driver (PT6315) / LED Driver data out |
| 28 | LED LAT | O | LED driver latch |
| 29 | FL_CLK/LED_CLK | O | FL driver (PT6315) / LED driver clock |
| 30 | FL_CS/STB | O | FL driver (PT6315) chip select |
| 31 | LED_RESET | O | LED driver reset |
| 32 | BACK LIGHT | O | Back light output |
| 33 | STBY_LED | O | Standby LED control |
| 34 | SIRCS_IN | I | Sircs input |
| 35 | EVSS | — | Ground for port |
| 36 | EVDD | — | Power supply for Port |
| 37 | USE NO | I/O | IIC data (Not used) |
| 38 | USE NO | I/O | IIC clock (Not used) |
| 39 | DRIVE_RST(EN) | O | Driver signal reset |
| 40 | DRIVE_OCP(DIAG) | I | Digital amp (power driver) diag |
| 41 | OVERFLOW1 | I | Over flow status1 of amp |
| 42 | OVERFLOW2 | I | Over flow status2 of amp |
| 43 | DAMP SCDT | O | Digital amp (CXD9788) data output |
| 44 | DAMP SHIFT | O | Digital amp (CXD9788) data output |
| 45 | DAMP LATCH1 | O | Digital amp (CXD9788) chip select1 signal output |
| 46 | DAMP LATCH2 | O | Digital amp (CXD9788) chip select2 signal output |
| 47 | DAMP LATCH3 | O | Digital amp (CXD9788) chip select3 signal output |

| Pin No. | Pin Name | I/O | Description |
|---------|-------------------|-----|--|
| 48 | DAMP INIT | O | Digital amp (CXD9788) reset signal output |
| 49 | DAMP SOFT MUTE | O | Digital amp (CXD9788) soft muting output |
| 50 | HP SW | I | Switch headphone is insert |
| 51 | HP MUTE | O | Control of muting headphone signal |
| 52 | IO_DI | I | I/O expander (PT8300) data in / SW2 of CDM |
| 53 | IO_DO | O | I/O expander (PT8300) data out / SW3 of CDM |
| 54 | IO_CLK | O | I/O expander (PT8300) clock |
| 55 | DSP_DOUT | I | DSP (MB86334B) data In |
| 56 | DSP_DIN / DIR_DIN | O | DSP (MB86334B)/DIR (LC89052T) data out |
| 57 | DSP_CLK / DIR_CLK | O | DSP(MB86334B)/DIR (LC89052T) clock |
| 58 | DIR_CSFLAG | I | DIR (LC89056W) csflag in |
| 59 | DIR ZERO | I | DIR (LC89056W) zero in |
| 60 | (NO USE) | I | RDS clock (Not used) |
| 61 | (NO USE) | I | RDS data in (Not used) |
| 62 | DSP_ACK | I | DSP (MB86334B) acknowredge |
| 63 | DSP_GP9 | I | DSP (MB86334B) GP9 in |
| 64 | DSP_XRST | O | DSP (MB86334B) reset |
| 65 | DSP_HCE | O | DSP (MB86334B) chip enable |
| 66 | DSP_BST | O | DSP (MB86334B) bootstrap (for DSP INIT) |
| 67 | DSP_PM | O | DSP (MB86334B) pll initial |
| 68 | DIR RST | O | DIR (LC89056W) reset out |
| 69 | DIR HCE | O | DIR (LC89056W) chip enable signal output |
| 70 | DIR RERR | I | DIR (LC89056W) error input |
| 71 | BVSS | — | Ground terminal (bus interface) |
| 72 | BVDD | — | Power supply terminal (bus interface) |
| 73 | DIR XSTATE | I | DIR (LC89056W) change clock status |
| 74 | DIR HDOUT | I | DIR (LC89056W) Data input |
| 75 | DSP_SKIP | O | DSP GP12 |
| 76 | AD RST | O | ADC reset (Not used) |
| 77 | (NO USE) | O | Not used |
| 78 | (NO USE) | O | Not used |
| 79 | (NO USE) | O | Not used |
| 80 | (NO USE) | O | Not used |
| 81 | TUNED | I | Tuner pack tuned in |
| 82 | PLL-CLK | O | Tuner clock |
| 83 | PLL-DO | O | Tuner data out (uCOM→pack) |
| 84 | PLL-CE | O | Tuner chip enable |
| 85 | PLL-DI | I | Tuner data in (pack→uCOM) |
| 86 | AVS0 | O | Audio/Video select0 |
| 87 | AVS1 | O | Audio/Video select1 |
| 88 | AVS2 | O | Audio/Video select2 |
| 89 | AVS3 | O | Audio/Video select3 |
| 90 | (NO USE) | O | Video output select (DVD select) (Not used) |
| 91 | (NO USE) | O | VIDEO output select (RGB select) (Not used) |
| 92 | IO_CE | O | I/O expander (PT8300) chip enable / control of loading cd tray (open action) |
| 93 | IO_RESET | O | I/O expander (PT8300) reset / control of loading cd tray (close action) |
| 94 | KEY2 | I | Key input 2 |

HCD-BC150/BC250

| Pin No. | Pin Name | I/O | Description |
|---------|-------------|-----|--------------------------|
| 95 | KEY1 | I | Key input 1 |
| 96 | KEY0 | I | Key input 0 |
| 97 | DESTINATION | I | Destination select |
| 98 | MODEL | I | Model select |
| 99 | DEVICE1 | I | Device select1 (DISPLAY) |
| 100 | DEVICE2 | I | Device select2 (AMP) |

• AMP BOARD IC101 to IC106 CXD9774M (POWER DRIVER)

| Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|---|
| 1 | GND | — | Power ground |
| 2 | PWM_BP | I | PWM input signal, half-bridge B |
| 3 | GND | — | Power ground |
| 4 | RESET | I | Reset signal |
| 5 | DREG_RTN | — | Decoupling return pin |
| 6 | GREG | — | Local GVDD decoupling pin |
| 7 | M3 | I | Output mode selection pin; connect to ground |
| 8 | DREG_RTN | — | Digital supply voltage regulator decoupling pin |
| 9 | DGND | — | I/O reference ground |
| 10 | M1 | I | Protection mode selection pin |
| 11 | M2 | I | Protection mode selection pin |
| 12 | DVDD | — | I/O reference supply input |
| 13 | SD | O | Shutdown signal for half-bridges A and B |
| 14 | RESV | — | I/O reference ground |
| 15 | OTW | O | Overtemperature warning output |
| 16 | GND | — | Power ground |
| 17 | PWM_AP | I | PWM input signal, half-bridge A |
| 18 | GND | — | Power ground |
| 19 | GREG | — | Gate drive input voltage |
| 20 | GVDD | — | Gate drive input voltage |
| 21 | PVSS | — | Power ground |
| 22 | BST_A | — | High side bootstrap supply (BST), external resistor and capacitor to OUT_A required |
| 23 | PVDD_A | — | Power supply input for half-bridge A |
| 24 | PVDD_A | — | Power supply input for half-bridge A |
| 25 | OUT_A | O | Output, half-bridge A |
| 26 | OUT_A | O | Output, half-bridge A |
| 27 | PVSS | — | Power ground |
| 28 | PVSS | — | Power ground |
| 29 | OUT_B | O | Output, half-bridge B |
| 30 | OUT_B | O | Output, half-bridge B |
| 31 | PVDD_B | — | Power supply input for half-bridge B |
| 32 | PVDD_B | — | Power supply input for half-bridge B |
| 33 | BST_B | — | High side bootstrap supply (BST), external resistor and capacitor to OUT_B required |
| 34 | PVSS | — | Power ground |
| 35 | GVDD_B | — | Gate drive input voltage |
| 36 | GREG | — | Gate drive input voltage |

SECTION 6
EXPLODED VIEWS

NOTE:

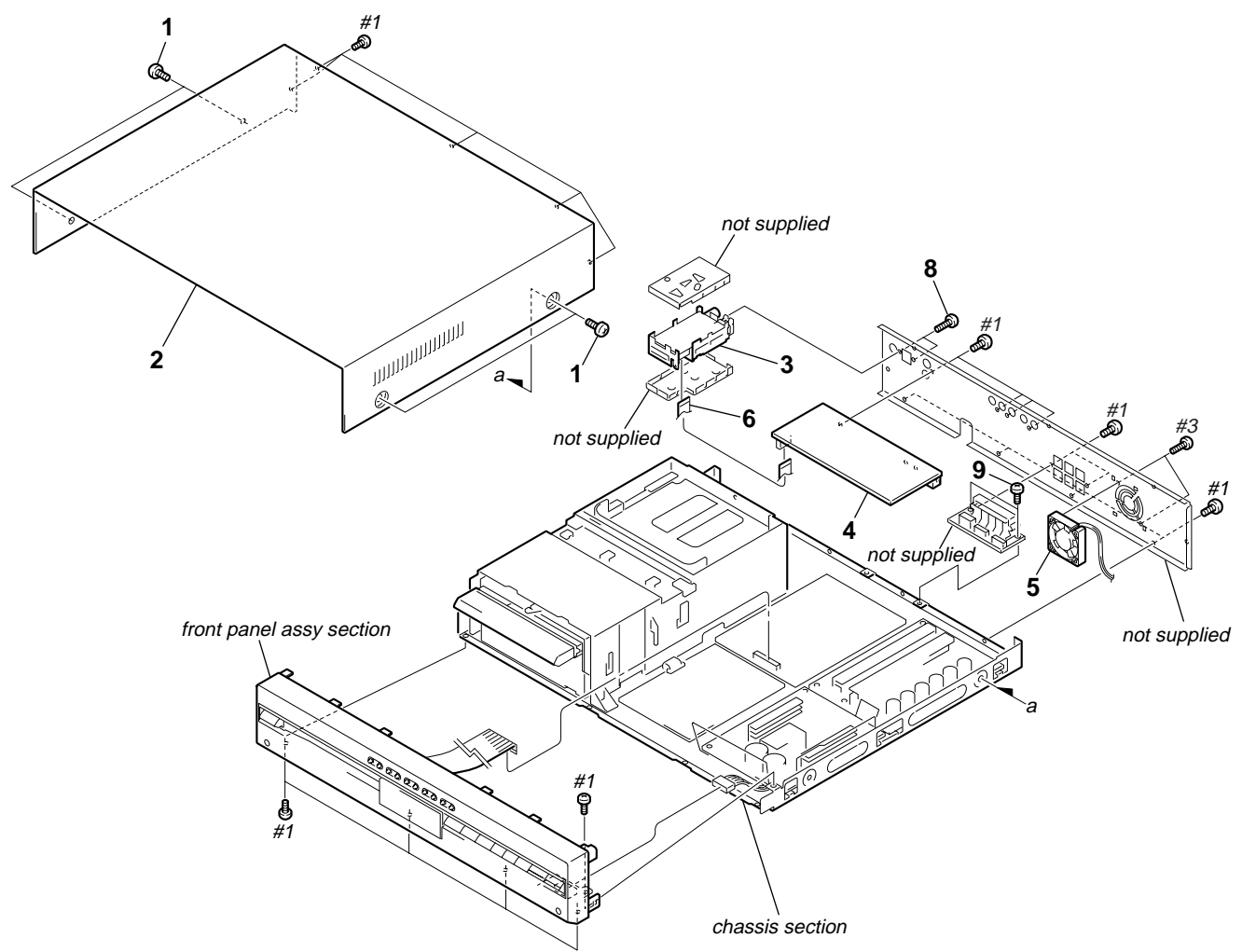
- XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The mechanical parts with no reference number in the exploded views are not supplied.
- Abbreviation
CND : Canadian model

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

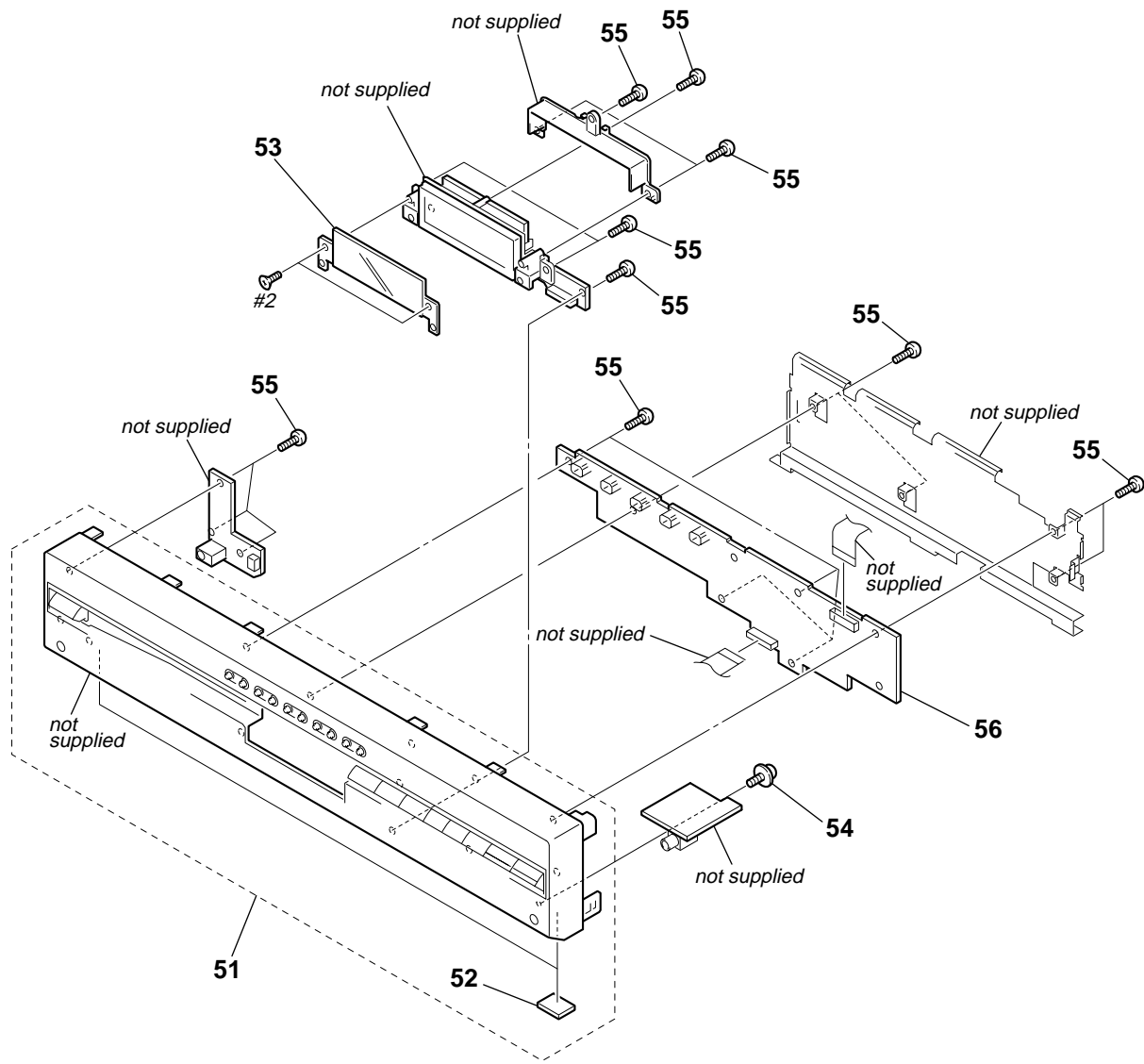
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. OVERALL SECTION



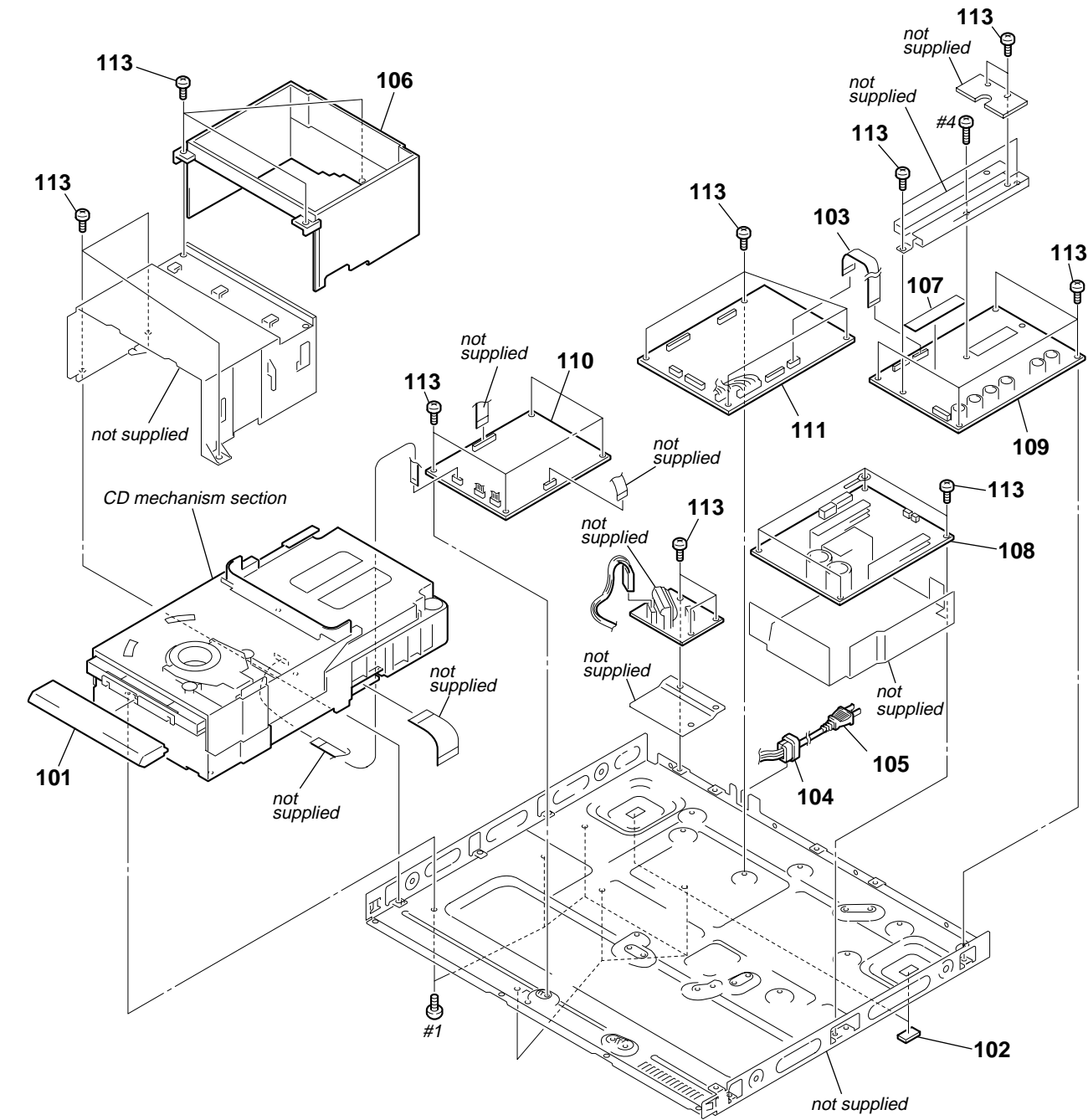
| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|--------------------|--------|----------|--------------|-----------------------------------|--------|
| 1 | 3-363-099-22 | SCREW (CASE 3 TP2) | | 6 | 1-828-962-11 | WIRE (FLAT TYPE) (11 CORE) | |
| 2 | 4-252-117-01 | CASE | | 7 | 3-077-331-01 | +BV3 (3-CR) | |
| 3 | A-4750-572-A | TUNER BOARD,UNIT | | 8 | 4-931-757-31 | SCREW (DIA.2.6X8) (IT3B), TAPPING | |
| 4 | A-1060-648-A | IO BOARD, COMPLETE | | #1 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 IT-3 | |
| 5 | 1-763-861-12 | FAN, DC | | #3 | 7-685-881-09 | SCREW +BVTT 4X8 (S) | |

6-2. FRONT PANEL SECTION



| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|------------------------------|--------|----------|--------------|-----------------------------------|--------|
| 51 | X-4956-431-1 | PANEL (BC) ASSY, FRONT (150) | | 54 | 4-985-672-01 | SCREW (+PTPWH M2.6), FLOATING | |
| 51 | X-2022-054-1 | PANEL ASSY, FRONT (250) | | 55 | 4-931-757-31 | SCREW (DIA.2.6X8) (IT3B), TAPPING | |
| 52 | 4-244-969-01 | FOOT (150) | | 56 | A-4752-728-A | PANEL BOARD, COMPLETE | |
| 52 | 4-244-969-01 | FOOT (250) | | #2 | 7-685-233-14 | SCREW +KTP 2.6X6 TYPE2NON-SLIT | |
| 53 | 4-252-123-11 | FL, WINDOW | | | | | |

6-3. CHASSIS SECTION

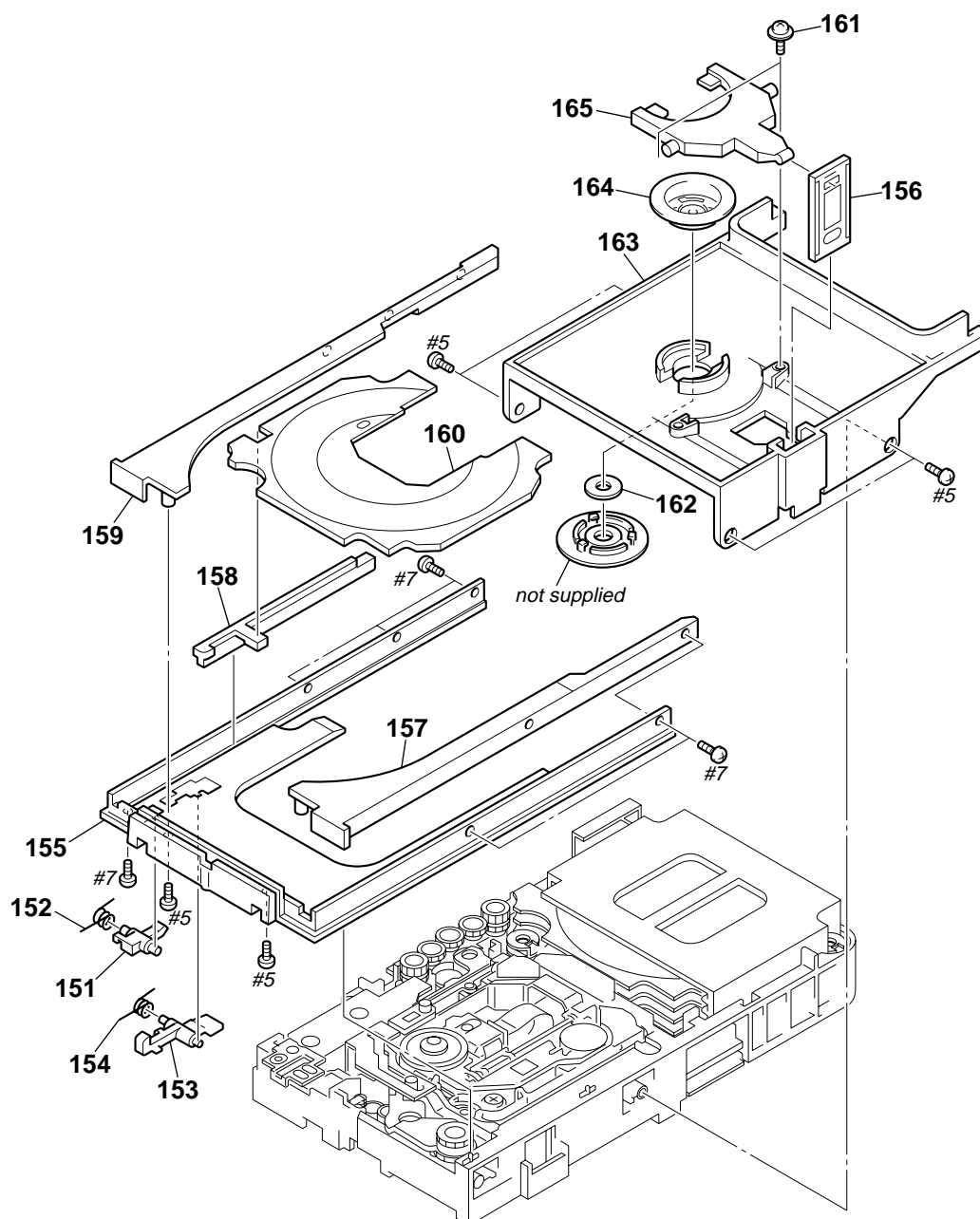


| Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------------|--------|
| 101 | 4-252-116-01 | LID, DVD | |
| 102 | 4-244-969-01 | FOOT | |
| 103 | 1-828-954-11 | WIRE (FLAT TYPE) (9 CORE) | |
| 104 | 4-217-350-11 | STOPPER, CORD | |
| △ 105 | 1-783-531-72 | CORD, POWER | |
| 106 | 2-021-013-01 | REAR COVER, MD | |
| 107 | 4-254-947-11 | SHEET (AMP), RADIATION | |
| △ 108 | 1-468-836-13 | REGULATOR, SWITCHING | |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|--------------------------------|--------|
| 109 | A-1060-642-A | AMP BOARD, COMPLETE | |
| 110 | A-1060-649-A | DMB09 BOARD, COMPLETE | |
| 111 | A-1060-645-A | MAIN (B) BOARD, COMPLETE (150) | |
| 111 | A-1067-097-A | MAIN (B) BOARD, COMPLETE (250) | |
| 113 | 3-077-331-01 | +BV3 (3-CR) | |
| #1 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 IT-3 | |
| #4 | 7-685-650-79 | SCREW +BVTP 3X16 TYPE2 IT-3 | |

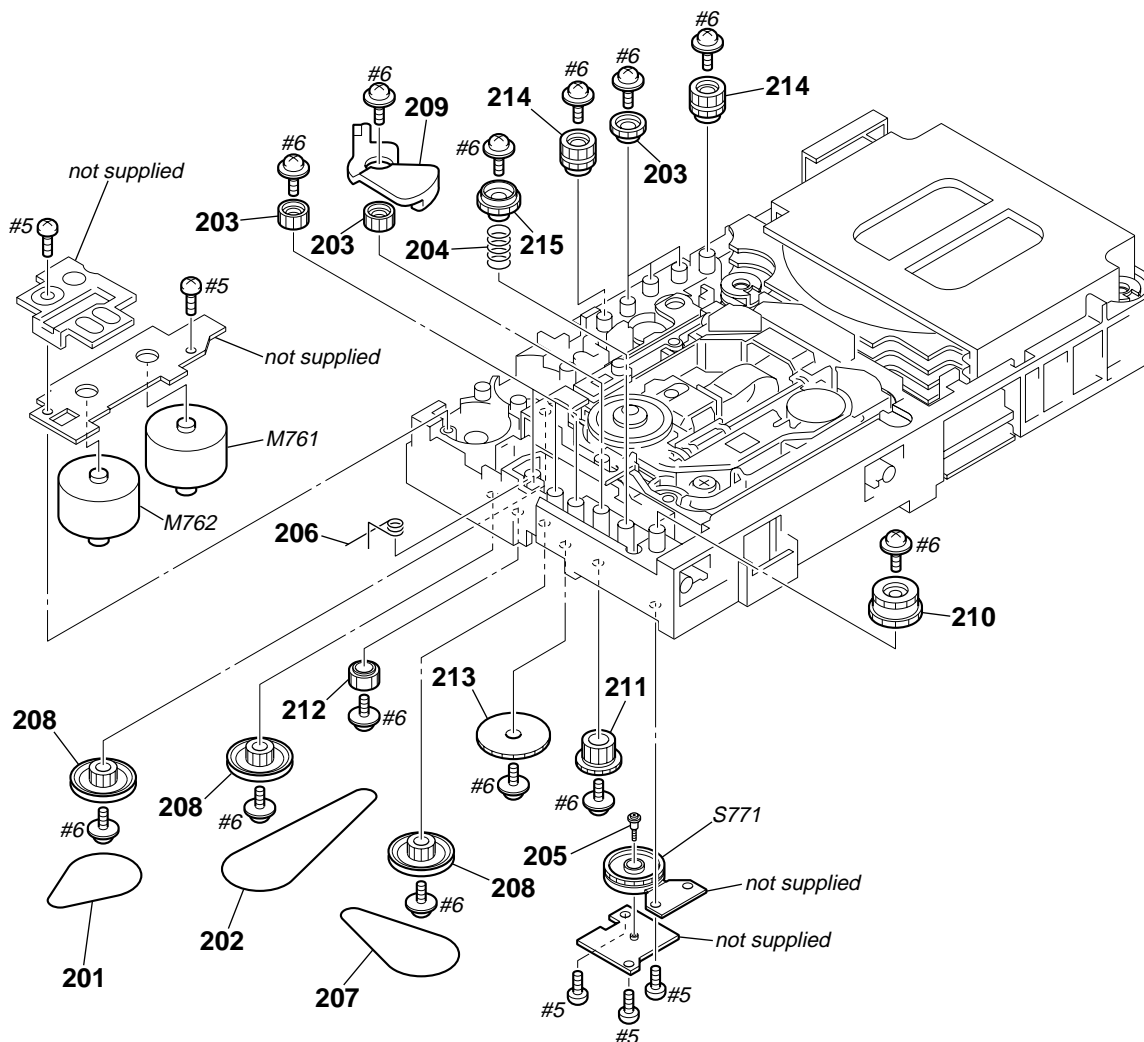
| | |
|--|--|
| The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |
|--|--|

6-4. DVD MECHANISM DECK SECTION-1 (CDM81C-DVBU100)



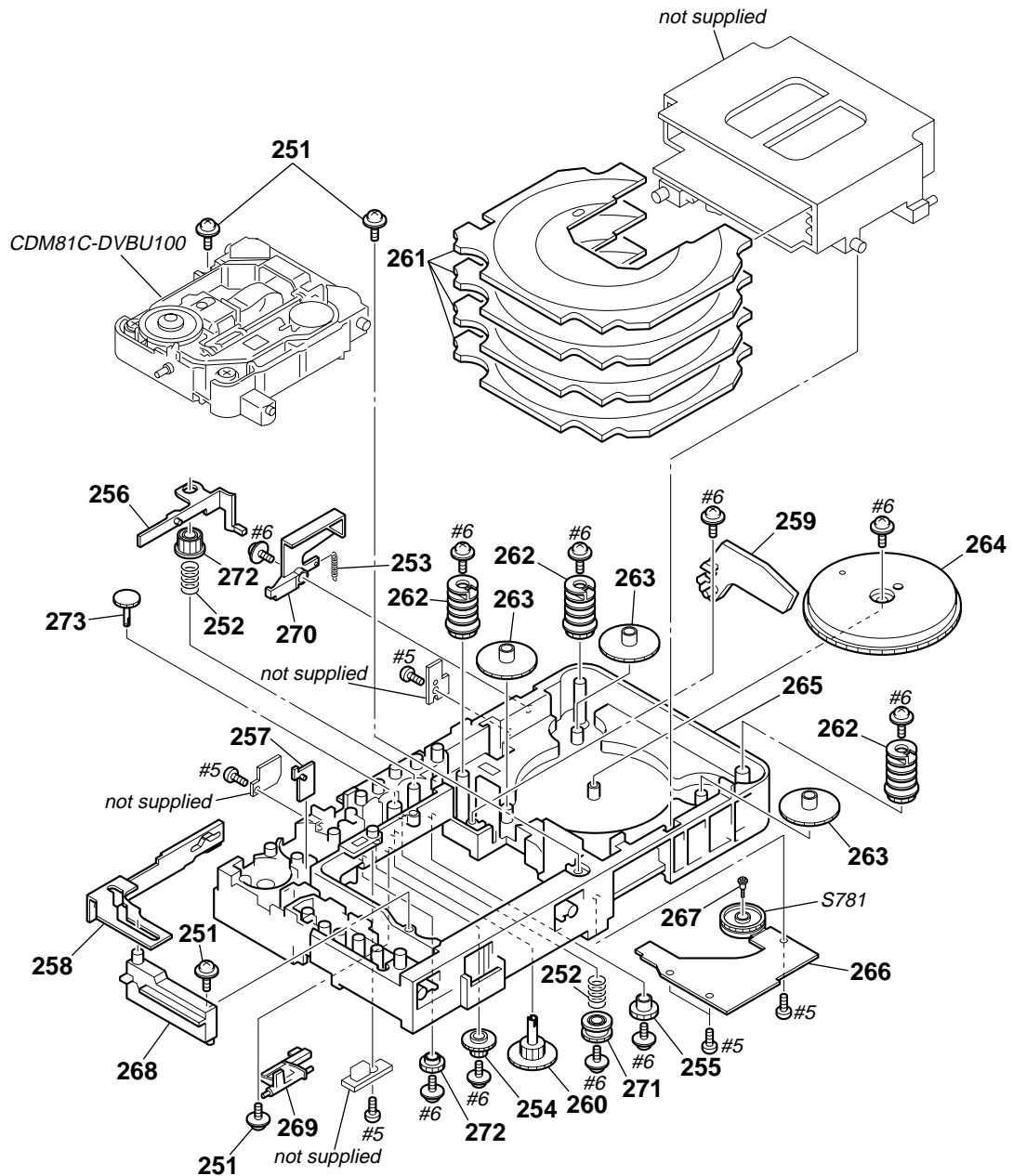
| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|------------------------|--------|----------|--------------|------------------------------|--------|
| 151 | 4-251-849-01 | LEVER (SW2) | | 160 | 4-251-829-02 | TRAY (SUB) | |
| 152 | 4-251-991-01 | SPRING (SW2), TORSION | | 161 | 4-985-672-01 | SCREW (+PTPWHM2.6), FLOATING | |
| 153 | 4-251-860-01 | LEVER (LOCK) | | 162 | 4-251-923-01 | YOKE (310) | |
| 154 | 4-251-867-01 | SPRING (LOCK), TORSION | | 163 | 4-251-821-02 | BRACKET (TOP) | |
| 155 | 4-251-828-01 | TRAY (MAIN) | | 164 | 4-251-922-01 | PULLEY B (310), CHUCKING | |
| 156 | 4-251-822-01 | JOINT (LIFTER) | | 165 | 4-251-824-01 | LIFTER | |
| 157 | 4-251-857-01 | COVER (R) | | #5 | 7-685-534-19 | SCREW +BTP 2.6X8 TYPE2 N-S | |
| 158 | 4-251-830-01 | SLIDER (ST) | | #7 | 7-685-102-19 | SCREW +P 2X4 NON-SLIT TYPE 2 | |
| 159 | 4-251-858-01 | COVER (L) | | | | | |

6-5. DVD MECHANISM DECK SECTION-2 (CDM81C-DVBU100)



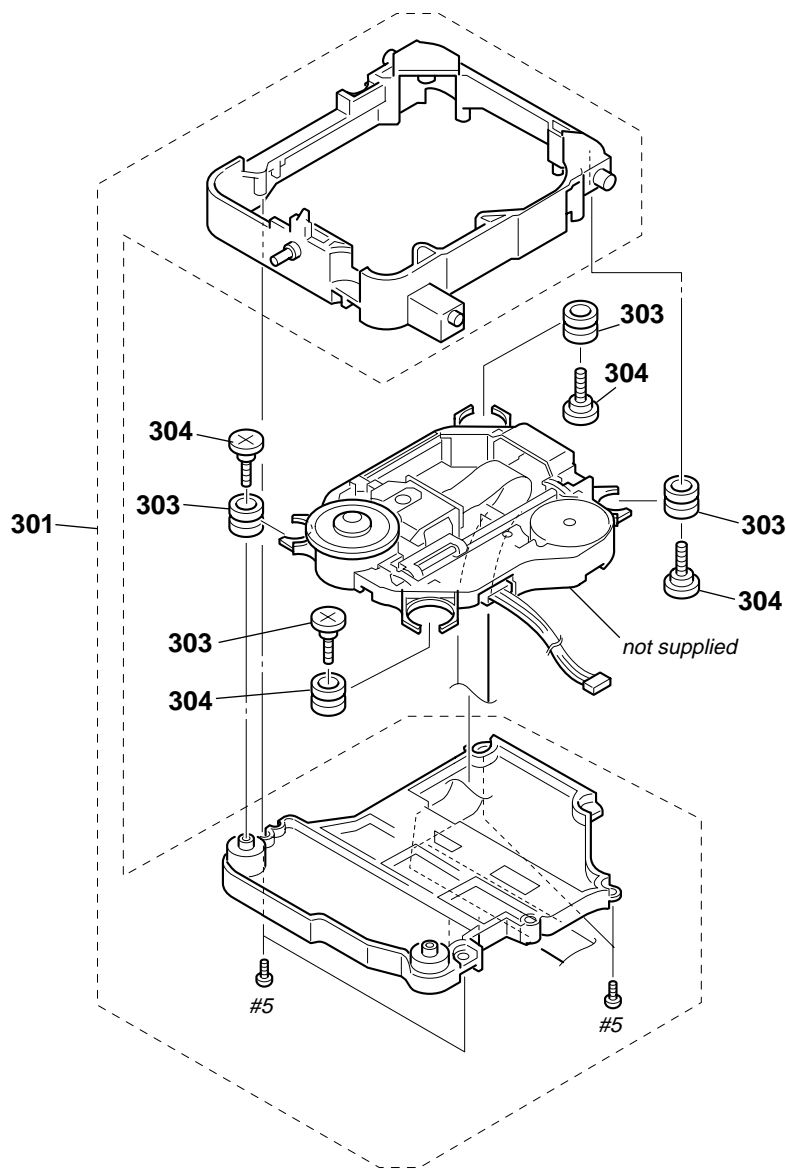
| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------------------|--------|----------|--------------|--------------------------------|--------|
| 201 | 4-251-870-01 | BELT (BU) | | 211 | 4-251-854-01 | GEAR (BU1) | |
| 202 | 4-251-869-01 | BELT (MAIN TRAY) | | 212 | 4-251-850-01 | GEAR (MAIN TRAY 1) | |
| 203 | 4-251-841-01 | GEAR (SUB TRAY 1) | | 213 | 4-251-856-01 | GEAR (BU2) | |
| 204 | 4-251-873-01 | SPRING (MODE), COMPRESSION | | 214 | 4-251-842-01 | GEAR (SUB TRAY 2) | |
| 205 | 4-239-618-02 | SCREW (+PWH, 2X6), STEP TAPPING | | 215 | 4-251-851-01 | GEAR (MAIN TRAY 2) | |
| 206 | 4-251-872-01 | SPRING (LEVER), TORSION | | M761 | A-4713-174-A | MOTOR (81) ASSY (LD/ST MOTOR) | |
| 207 | 4-251-868-01 | BELT (SUB TRAY) | | M762 | A-4713-174-A | MOTOR (81) ASSY (BU U/D MOTOR) | |
| 208 | 4-251-853-01 | PULLEY (BU) | | S771 | 1-478-552-11 | ENCODER, ROTARY (MD) | |
| 209 | 4-251-834-01 | LEVER (MAIN TRAY) | | #5 | 7-685-534-19 | SCREW +BTP 2.6X8 TYPE2 N-S | |
| 210 | 4-251-852-01 | GEAR (MAIN TRAY 3) | | #6 | 7-685-902-21 | SCREW +PTPWH 2.6X8 (TYPE2) | |

6-6. DVD MECHANISM DECK SECTION-3 (CDM81C-DVBU100)



| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------------------------|--------|----------|--------------|----------------------------------|--------|
| 251 | 4-985-672-01 | SCREW (+PTPWH M2.6), FLOATING | | 264 | 4-251-838-01 | GEAR (STOCKER 3) | |
| 252 | 4-251-873-01 | SPRING (MODE), COMPRESSION | | 265 | 4-251-823-01 | CHASSIS (CDM81) | |
| 253 | 4-251-874-02 | SPRING (SW), TENSION | | 266 | A-4750-232-A | TRANSLATION BOARD, COMPLETE | |
| 254 | 4-251-844-01 | GEAR (SS2) | | 267 | 4-239-618-02 | SCREW (+PWH, 2X6), STEP TAPPING | |
| 255 | 4-251-835-01 | GEAR (STOCKER 1) | | 268 | 4-251-825-01 | CAM (BU) | |
| 256 | 4-251-833-01 | LEVER (SUB TRAY) | | 269 | 4-251-832-01 | LEVER (STOCKER) | |
| 257 | 4-251-843-01 | LEVER (RELEASE) | | 270 | 4-251-861-01 | LEVER (SW) | |
| 258 | 4-251-831-02 | LEVER (MODE) | | 271 | 4-251-839-01 | GEAR (STOCKER 4) | |
| 259 | 4-251-862-01 | SHUTTER (TRAY) | | 272 | 4-251-840-01 | GEAR (SUB TRAY) | |
| 260 | 4-251-845-01 | GEAR (SS3) | | 273 | 4-251-847-01 | GEAR (SS4) | |
| 261 | 4-251-829-02 | TRAY (SUB) | | S781 | 1-478-551-11 | ENCODER, ROTARY (ST U/D ENCODER) | |
| 262 | 4-251-827-01 | CAM (STOCKER) | | #5 | 7-685-534-19 | SCREW +BTP 2.6X8 TYPE2 N-S | |
| 263 | 4-251-836-01 | GEAR (STOCKER 2) | | #6 | 7-685-902-21 | SCREW +PTPWH 2.6X8 (TYPE2) | |

6-7 BASE UNIT (DVBU100)



| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------------|--------|----------|--------------|----------------------------|--------|
| 301 | X-4956-097-1 | HOLDER (310) ASSY | | 304 | 3-087-599-01 | INSULATOR SCREW | |
| 303 | 3-088-372-01 | INSULATOR | | #5 | 7-685-534-19 | SCREW +BTP 2.6X8 TYPE2 N-S | |

SECTION 7 ELECTRICAL PARTS LIST

AMP**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- CAPACITORS
uF: μ F
• COILS
uH: μ H
• SEMICONDUCTORS
In each case, u: μ , for example:
uA. . : μ A. ., uPA. . : μ PA. .,
uPB. . : μ PB. ., uPC. . : μ PC. .,
uPD. . : μ PD. .
• Abbreviation
CND : Canadian model

When indicating parts by reference number, please include the board name.

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref. No. | Part No. | Description | Remark | | Ref. No. | Part No. | Description | Remark | |
|----------|--------------|------------------------------|--------|-----|----------|--------------|--------------------------|--------|--|
| | A-1060-642-A | AMP BOARD, COMPLETE ***** | | | C166 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | 50V | |
| | | < CAPACITOR > | | | C168 | 1-162-923-11 | CERAMIC CHIP 47PF 5% | 50V | |
| | | | | | C171 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | 50V | |
| | | | | | C172 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | 50V | |
| | | | | | C173 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | 50V | |
| C101 | 1-164-346-11 | CERAMIC CHIP 1uF | | 16V | C174 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | 50V | |
| C102 | 1-164-346-11 | CERAMIC CHIP 1uF | | 16V | C175 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | 50V | |
| C103 | 1-164-346-11 | CERAMIC CHIP 1uF | | 16V | C176 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | 50V | |
| C104 | 1-164-346-11 | CERAMIC CHIP 1uF | | 16V | C178 | 1-162-923-11 | CERAMIC CHIP 47PF 5% | 50V | |
| C105 | 1-164-346-11 | CERAMIC CHIP 1uF | | 16V | C181 | 1-115-185-11 | CERAMIC CHIP 0.033uF 10% | 50V | |
| C106 | 1-164-346-11 | CERAMIC CHIP 1uF | | 16V | C182 | 1-115-185-11 | CERAMIC CHIP 0.033uF 10% | 50V | |
| C111 | 1-164-346-11 | CERAMIC CHIP 1uF | | 16V | C183 | 1-115-185-11 | CERAMIC CHIP 0.033uF 10% | 50V | |
| C112 | 1-164-346-11 | CERAMIC CHIP 1uF | | 16V | C184 | 1-115-185-11 | CERAMIC CHIP 0.033uF 10% | 50V | |
| C113 | 1-164-346-11 | CERAMIC CHIP 1uF | | 16V | C185 | 1-115-185-11 | CERAMIC CHIP 0.033uF 10% | 50V | |
| C114 | 1-164-346-11 | CERAMIC CHIP 1uF | | 16V | C186 | 1-115-185-11 | CERAMIC CHIP 0.033uF 10% | 50V | |
| C115 | 1-164-346-11 | CERAMIC CHIP 1uF | | 16V | C188 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V | |
| C116 | 1-164-346-11 | CERAMIC CHIP 1uF | | 16V | C189 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V | |
| C131 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% | | 25V | C190 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V | |
| C132 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% | | 25V | C191 | 1-107-898-11 | ELECT 2200uF 20% | 35V | |
| C133 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% | | 25V | C192 | 1-107-898-11 | ELECT 2200uF 20% | 35V | |
| C134 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% | | 25V | C193 | 1-107-898-11 | ELECT 2200uF 20% | 35V | |
| C135 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% | | 25V | C194 | 1-107-898-11 | ELECT 2200uF 20% | 35V | |
| C136 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% | | 25V | C195 | 1-107-898-11 | ELECT 2200uF 20% | 35V | |
| C138 | 1-162-923-11 | CERAMIC CHIP 47PF 5% | | 50V | C196 | 1-110-617-51 | ELECT 2200uF 20% | 50V | |
| C141 | 1-164-156-11 | CERAMIC CHIP 0.1uF | | 25V | C198 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V | |
| C142 | 1-164-156-11 | CERAMIC CHIP 0.1uF | | 25V | C199 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V | |
| C143 | 1-164-156-11 | CERAMIC CHIP 0.1uF | | 25V | C200 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V | |
| C144 | 1-164-156-11 | CERAMIC CHIP 0.1uF | | 25V | C201 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | 50V | |
| C145 | 1-164-156-11 | CERAMIC CHIP 0.1uF | | 25V | C202 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | 50V | |
| C146 | 1-164-156-11 | CERAMIC CHIP 0.1uF | | 25V | C203 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | 50V | |
| C148 | 1-162-923-11 | CERAMIC CHIP 47PF 5% | | 50V | C204 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | 50V | |
| C149 | 1-162-923-11 | CERAMIC CHIP 47PF 5% | | 50V | C205 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | 50V | |
| C151 | 1-115-185-11 | CERAMIC CHIP 0.033uF 10% | | 50V | C206 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | 50V | |
| C152 | 1-115-185-11 | CERAMIC CHIP 0.033uF 10% | | 50V | C207 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | 50V | |
| C153 | 1-115-185-11 | CERAMIC CHIP 0.033uF 10% | | 50V | C208 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | 50V | |
| C154 | 1-115-185-11 | CERAMIC CHIP 0.033uF 10% | | 50V | C209 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | 50V | |
| C155 | 1-115-185-11 | CERAMIC CHIP 0.033uF 10% | | 50V | C210 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | 50V | |
| C156 | 1-115-185-11 | CERAMIC CHIP 0.033uF 10% | | 50V | C211 | 1-136-177-00 | FILM 1uF 5% | 50V | |
| C158 | 1-126-947-11 | ELECT 47uF 20% | | 35V | C212 | 1-136-177-00 | FILM 1uF 5% | 50V | |
| C160 | 1-162-923-11 | CERAMIC CHIP 47PF 5% | | 50V | C213 | 1-136-177-00 | FILM 1uF 5% | 50V | |
| C161 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | | 50V | C214 | 1-136-177-00 | FILM 1uF 5% | 50V | |
| C162 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | | 50V | C215 | 1-136-177-00 | FILM 1uF 5% | 50V | |
| C163 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | | 50V | C216 | 1-136-177-00 | FILM 1uF 5% | 50V | |
| C164 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | | 50V | C221 | 1-136-177-00 | FILM 1uF 5% | 50V | |
| C165 | 1-125-898-91 | CERAMIC CHIP 0.22uF 10% | | 50V | | | | | |

HCD-BC150/BC250

AMP

| Ref. No. | Part No. | Description | Remark | | | Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|--------------|----------|-----|-----|----------|--------------|--------------|----------|--------|-----|
| C222 | 1-136-177-00 | FILM | 1uF | 5% | 50V | C322 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C223 | 1-136-177-00 | FILM | 1uF | 5% | 50V | C323 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C224 | 1-136-177-00 | FILM | 1uF | 5% | 50V | C324 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C225 | 1-136-177-00 | FILM | 1uF | 5% | 50V | C325 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C226 | 1-136-177-00 | FILM | 1uF | 5% | 50V | C326 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C248 | 1-126-947-11 | ELECT | 47uF | 20% | 35V | C327 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C251 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C328 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C252 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C329 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C253 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C330 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C254 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C331 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C255 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C332 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C256 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C333 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C261 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C334 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C262 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C335 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C263 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C336 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C264 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C337 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C265 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C350 | 1-115-339-11 | CERAMIC CHIP | 0.1uF | 10% | 50V |
| C266 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C351 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C271 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V | C352 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C272 | 1-125-898-91 | CERAMIC CHIP | 0.22uF | 10% | 50V | C353 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C275 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | C354 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C276 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | C355 | 1-126-933-11 | ELECT | 100uF | 20% | 16V |
| C277 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | C356 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C278 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | C357 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C281 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C358 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C282 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C359 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C283 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C360 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C284 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C361 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C285 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C362 | 1-104-658-91 | ELECT | 100uF | 20% | 10V |
| C286 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C363 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C287 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C366 | 1-126-934-11 | ELECT | 220uF | 20% | 16V |
| C288 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C367 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C289 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C368 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C290 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C370 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C291 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C371 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C292 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C372 | 1-126-960-11 | ELECT | 1uF | 20% | 50V |
| C301 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C374 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C302 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C375 | 1-126-933-11 | ELECT | 100uF | 20% | 16V |
| C303 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C377 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C304 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C380 | 1-126-923-91 | ELECT | 220uF | 20% | 10V |
| C305 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C381 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C306 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C382 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C308 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C383 | 1-162-915-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C309 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C384 | 1-162-910-11 | CERAMIC CHIP | 5PF | 0.25PF | 50V |
| C310 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C385 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V |
| C311 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C391 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V |
| C312 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C392 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V |
| C313 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C393 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V |
| C314 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C394 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V |
| C315 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C395 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V |
| C316 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C396 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V |
| C317 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C402 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C318 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C403 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C319 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C404 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C320 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C405 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C321 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C406 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V |
| | | | | | | C436 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|------------------|--------------|------------------------------------|--------|----------------|--------------|-------------------------|--------|
| < CONNECTOR > | | | | < COIL > | | | |
| CN300 | 1-564-704-11 | PIN, CONNECTOR (SMALL TYPE) 2P | | L121 | 1-456-680-11 | INDUCTOR 10uH | |
| CN301 | 1-779-285-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 17P | | L122 | 1-456-680-11 | INDUCTOR 10uH | |
| CN302 | 1-779-277-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 9P | | L123 | 1-456-680-11 | INDUCTOR 10uH | |
| CN306 | 1-691-766-21 | PLUG (MICRO CONNECTOR) 4P | | L124 | 1-456-680-11 | INDUCTOR 10uH | |
| CN307 | 1-691-766-11 | PLUG (MICRO CONNECTOR) 4P | | L125 | 1-456-680-11 | INDUCTOR 10uH | |
| * CN313 | 1-564-243-11 | PIN, CONNECTOR (3.96mm PITCH) 6P | | L126 | 1-456-680-11 | INDUCTOR 10uH | |
| < DIODE > | | | | L131 | 1-456-680-11 | INDUCTOR 10uH | |
| D101 | 6-500-260-01 | DIODE P6SMB39AT3 | | L132 | 1-456-680-11 | INDUCTOR 10uH | |
| D102 | 6-500-260-01 | DIODE P6SMB39AT3 | | L133 | 1-456-680-11 | INDUCTOR 10uH | |
| D103 | 6-500-260-01 | DIODE P6SMB39AT3 | | L134 | 1-456-680-11 | INDUCTOR 10uH | |
| D104 | 6-500-260-01 | DIODE P6SMB39AT3 | | L135 | 1-456-680-11 | INDUCTOR 10uH | |
| D105 | 6-500-260-01 | DIODE P6SMB39AT3 | | L136 | 1-456-680-11 | INDUCTOR 10uH | |
| D106 | 6-500-260-01 | DIODE P6SMB39AT3 | | L302 | 1-412-939-11 | INDUCTOR 1uH | |
| D201 | 6-500-260-01 | DIODE P6SMB39AT3 | | < TRANSISTOR > | | | |
| D202 | 6-500-260-01 | DIODE P6SMB39AT3 | | Q101 | 8-729-602-36 | TRANSISTOR 2SA1602-F | |
| D203 | 6-500-260-01 | DIODE P6SMB39AT3 | | Q102 | 8-729-602-36 | TRANSISTOR 2SA1602-F | |
| D204 | 6-500-260-01 | DIODE P6SMB39AT3 | | Q103 | 8-729-602-36 | TRANSISTOR 2SA1602-F | |
| D205 | 6-500-260-01 | DIODE P6SMB39AT3 | | Q104 | 8-729-602-36 | TRANSISTOR 2SA1602-F | |
| D206 | 6-500-260-01 | DIODE P6SMB39AT3 | | Q105 | 8-729-602-36 | TRANSISTOR 2SA1602-F | |
| D208 | 8-719-421-15 | DIODE MA8027-L | | Q106 | 8-729-602-36 | TRANSISTOR 2SA1602-F | |
| D303 | 8-719-988-61 | DIODE 1SS355TE-17 | | Q107 | 8-729-602-36 | TRANSISTOR 2SA1602-F | |
| D304 | 8-719-988-61 | DIODE 1SS355TE-17 | | Q108 | 8-729-602-36 | TRANSISTOR 2SA1602-F | |
| < FERRITE BEAD > | | | | Q109 | 8-729-602-36 | TRANSISTOR 2SA1602-F | |
| FB301 | 1-469-760-21 | FERRITE, EMI (SMD) (2012) | | Q110 | 8-729-602-36 | TRANSISTOR 2SA1602-F | |
| < IC > | | | | Q111 | 8-729-602-36 | TRANSISTOR 2SA1602-F | |
| IC101 | 6-704-802-01 | IC CXD9774M | | Q112 | 8-729-602-36 | TRANSISTOR 2SA1602-F | |
| IC102 | 6-704-802-01 | IC CXD9774M | | Q301 | 8-729-034-51 | TRANSISTOR KTC3875 | |
| IC103 | 6-704-802-01 | IC CXD9774M | | Q303 | 8-729-801-84 | TRANSISTOR 2SB1013-4 | |
| IC104 | 6-704-802-01 | IC CXD9774M | | Q304 | 8-729-038-68 | TRANSISTOR KRC103S | |
| IC105 | 6-704-802-01 | IC CXD9774M | | < RESISTOR > | | | |
| IC106 | 6-704-802-01 | IC CXD9774M | | R108 | 1-216-837-11 | METAL CHIP 22K 5% 1/10W | |
| IC108 | 6-705-979-01 | IC CXD9788AR | | R109 | 1-216-837-11 | METAL CHIP 22K 5% 1/10W | |
| IC109 | 6-705-979-01 | IC CXD9788AR | | R110 | 1-216-837-11 | METAL CHIP 22K 5% 1/10W | |
| IC110 | 6-705-979-01 | IC CXD9788AR | | R111 | 1-216-837-11 | METAL CHIP 22K 5% 1/10W | |
| IC301 | 6-705-720-01 | IC RC4580IDR | | R112 | 1-216-837-11 | METAL CHIP 22K 5% 1/10W | |
| IC303 | 6-702-300-01 | IC TK11118CSCL-G | | R113 | 1-216-837-11 | METAL CHIP 22K 5% 1/10W | |
| IC305 | 6-701-189-01 | IC MC74VHC1GU04DFT1 | | R114 | 1-216-837-11 | METAL CHIP 22K 5% 1/10W | |
| < SHORT > | | | | R115 | 1-216-837-11 | METAL CHIP 22K 5% 1/10W | |
| JR401 | 1-216-864-11 | SHORT CHIP 0 | | R116 | 1-216-837-11 | METAL CHIP 22K 5% 1/10W | |
| JR402 | 1-216-864-11 | SHORT CHIP 0 | | R117 | 1-216-837-11 | METAL CHIP 22K 5% 1/10W | |
| JR403 | 1-216-864-11 | SHORT CHIP 0 | | R118 | 1-216-837-11 | METAL CHIP 22K 5% 1/10W | |
| JR404 | 1-216-864-11 | SHORT CHIP 0 | | R119 | 1-216-837-11 | METAL CHIP 22K 5% 1/10W | |
| JR405 | 1-216-864-11 | SHORT CHIP 0 | | R129 | 1-216-809-11 | METAL CHIP 100 5% 1/10W | |
| JR406 | 1-216-864-11 | SHORT CHIP 0 | | R131 | 1-216-864-11 | SHORT CHIP 0 | |
| JR407 | 1-216-864-11 | SHORT CHIP 0 | | R132 | 1-216-864-11 | SHORT CHIP 0 | |
| JR408 | 1-216-864-11 | SHORT CHIP 0 | | R133 | 1-216-864-11 | SHORT CHIP 0 | |
| JR409 | 1-216-864-11 | SHORT CHIP 0 | | R134 | 1-216-864-11 | SHORT CHIP 0 | |
| JR411 | 1-216-864-11 | SHORT CHIP 0 | | R135 | 1-216-864-11 | SHORT CHIP 0 | |
| JR412 | 1-216-864-11 | SHORT CHIP 0 | | R136 | 1-216-864-11 | SHORT CHIP 0 | |
| | | | | R139 | 1-216-864-11 | SHORT CHIP 0 | |
| | | | | R141 | 1-216-864-11 | SHORT CHIP 0 | |
| | | | | R142 | 1-216-864-11 | SHORT CHIP 0 | |
| | | | | R143 | 1-216-864-11 | SHORT CHIP 0 | |
| | | | | R144 | 1-216-864-11 | SHORT CHIP 0 | |
| | | | | R145 | 1-216-864-11 | SHORT CHIP 0 | |

HCD-BC150/BC250

AMP

| Ref. No. | Part No. | Description | Remark | | | | Ref. No. | Part No. | Description | Remark | | | |
|----------|--------------|-------------|--------|----|-------|--|----------|--------------|-------------|--------|------|-------|--|
| R146 | 1-216-864-11 | SHORT CHIP | 0 | | | | R305 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W | |
| R151 | 1-216-864-11 | SHORT CHIP | 0 | | | | R306 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W | |
| R152 | 1-216-864-11 | SHORT CHIP | 0 | | | | | | | | | | |
| R153 | 1-216-864-11 | SHORT CHIP | 0 | | | | R308 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W | |
| R154 | 1-216-864-11 | SHORT CHIP | 0 | | | | R309 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| | | | | | | | R310 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | |
| R155 | 1-216-864-11 | SHORT CHIP | 0 | | | | R311 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | |
| R156 | 1-216-864-11 | SHORT CHIP | 0 | | | | R312 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | |
| R161 | 1-216-864-11 | SHORT CHIP | 0 | | | | | | | | | | |
| R162 | 1-216-864-11 | SHORT CHIP | 0 | | | | R313 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | |
| R163 | 1-216-864-11 | SHORT CHIP | 0 | | | | R314 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | |
| | | | | | | | R315 | 1-216-803-11 | METAL CHIP | 33 | 5% | 1/10W | |
| R164 | 1-216-864-11 | SHORT CHIP | 0 | | | | R316 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W | |
| R165 | 1-216-864-11 | SHORT CHIP | 0 | | | | R317 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W | |
| R166 | 1-216-864-11 | SHORT CHIP | 0 | | | | | | | | | | |
| R171 | 1-216-864-11 | SHORT CHIP | 0 | | | | R318 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W | |
| R172 | 1-216-864-11 | SHORT CHIP | 0 | | | | R319 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| | | | | | | | R320 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R173 | 1-216-864-11 | SHORT CHIP | 0 | | | | R321 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R174 | 1-216-864-11 | SHORT CHIP | 0 | | | | R322 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R175 | 1-216-864-11 | SHORT CHIP | 0 | | | | | | | | | | |
| R176 | 1-216-864-11 | SHORT CHIP | 0 | | | | R323 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R191 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | | R324 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| | | | | | | | R325 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R192 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | | R326 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R193 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | | R327 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R194 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | | | | | | | | |
| R195 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | | R328 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R196 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | | R329 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| | | | | | | | R330 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W | |
| R201 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | | R331 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W | |
| R202 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | | R332 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W | |
| R203 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | | | | | | | | |
| R204 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | | R333 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W | |
| R205 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | | R334 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W | |
| | | | | | | | R335 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W | |
| R206 | 1-220-942-11 | METAL CHIP | 3.3 | 1% | 1/4W | | R336 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W | |
| R211 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | | R337 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W | |
| R212 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | | | | | | | | |
| R213 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | | R338 | 1-218-725-11 | METAL CHIP | 24K | 0.5% | 1/10W | |
| R214 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | | R339 | 1-218-725-11 | METAL CHIP | 24K | 0.5% | 1/10W | |
| | | | | | | | R340 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W | |
| R215 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | | R341 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W | |
| R216 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | | R342 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R221 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | | | | | | | | |
| R222 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | | R343 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R223 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | | R344 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W | |
| | | | | | | | R345 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R224 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | | R346 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W | |
| R225 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | | R347 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R226 | 1-216-136-00 | RES-CHIP | 2.7 | 5% | 1/8W | | | | | | | | |
| R229 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | | R348 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W | |
| R231 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | | R349 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W | |
| | | | | | | | R350 | 1-216-826-11 | METAL CHIP | 2.7K | 5% | 1/10W | |
| R233 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | | R351 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W | |
| R235 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | | R361 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | |
| R237 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | | | | | | | | |
| R241 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | | R362 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | |
| R242 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | | R363 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | |
| | | | | | | | R364 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | |
| R243 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | | R365 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | |
| R244 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | | R366 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | |
| R245 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | | | | | | | | |
| R246 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | | R371 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W | |
| R300 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W | | R372 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W | |
| | | | | | | | R373 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W | |
| R302 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W | | R374 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W | |
| R303 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W | | R375 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W | |
| R304 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W | | | | | | | | |

AMP

AMP RETAINER

DMB09

| Ref. No. | Part No. | Description | | | Remark |
|----------|--------------|-------------|------|----|--------|
| R376 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R377 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R378 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R379 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R380 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| | | | | | |
| R381 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R382 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R383 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R384 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R393 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| | | | | | |
| R394 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R395 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R396 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R400 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R401 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| | | | | | |
| R402 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R403 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R404 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R405 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R406 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| | | | | | |
| R407 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R408 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R409 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R410 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R411 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| | | | | | |
| R412 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R425 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R426 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R427 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R428 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| | | | | | |
| R429 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R430 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R431 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R450 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R451 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| | | | | | |
| R452 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R453 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R456 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R457 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R458 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| | | | | | |
| R459 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R460 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R461 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R462 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R463 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| | | | | | |
| R464 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R481 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R482 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R483 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R484 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| | | | | | |
| R487 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R488 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R489 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R490 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R491 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| | | | | | |
| R492 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R493 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R494 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remark |
|------------------------------------|--------------|---------------------------------|----------|-----|--------|
| R495 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R496 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| | | | | | |
| R497 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| | | | | | |
| < VIBRATOR > | | | | | |
| | | | | | |
| X450 | 1-795-660-21 | QUARTZ CRYSTAL UNIT (49.152MHz) | | | |
| ***** | | | | | |
| | | | | | |
| AMP RETAINER BOARD | | | | | |
| ***** | | | | | |
| | | | | | |
| ***** | | | | | |
| | | | | | |
| A-1060-649-A DMB09 BOARD, COMPLETE | | | | | |
| ***** | | | | | |
| | | | | | |
| < CAPACITOR > | | | | | |
| | | | | | |
| C104 | 1-164-230-11 | CERAMIC CHIP | 220PF | 5% | 50V |
| C106 | 1-164-230-11 | CERAMIC CHIP | 220PF | 5% | 50V |
| C107 | 1-124-779-00 | ELECT CHIP | 10uF | 20% | 16V |
| C109 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C110 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| | | | | | |
| C111 | 1-164-677-11 | CERAMIC CHIP | 0.033uF | 10% | 16V |
| C112 | 1-164-677-11 | CERAMIC CHIP | 0.033uF | 10% | 16V |
| C113 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C114 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C115 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| | | | | | |
| C116 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C119 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C120 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C121 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C123 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| | | | | | |
| C124 | 1-124-779-00 | ELECT CHIP | 10uF | 20% | 16V |
| C125 | 1-126-204-11 | ELECT CHIP | 47uF | 20% | 16V |
| C126 | 1-126-204-11 | ELECT CHIP | 47uF | 20% | 16V |
| C132 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C138 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| | | | | | |
| C139 | 1-124-779-00 | ELECT CHIP | 10uF | 20% | 16V |
| C140 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C141 | 1-124-779-00 | ELECT CHIP | 10uF | 20% | 16V |
| C142 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C143 | 1-124-779-00 | ELECT CHIP | 10uF | 20% | 16V |
| | | | | | |
| C144 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C145 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C147 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C148 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V |
| C152 | 1-115-467-11 | CERAMIC CHIP | 0.22uF | 10% | 10V |
| | | | | | |
| C153 | 1-126-205-11 | ELECT CHIP | 47uF | 20% | 6.3V |
| C154 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C161 | 1-115-467-11 | CERAMIC CHIP | 0.22uF | 10% | 10V |
| C165 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C166 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| | | | | | |
| C168 | 1-126-205-11 | ELECT CHIP | 47uF | 20% | 6.3V |
| C169 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C171 | 1-126-205-11 | ELECT CHIP | 47uF | 20% | 6.3V |
| C172 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C173 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |

HCD-BC150/BC250

DMB09

| Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|--------------|---------|-------|------|
| C175 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C176 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C177 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C178 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C179 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C180 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C181 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C184 | 1-164-315-11 | CERAMIC CHIP | 470PF | 5% | 50V |
| C185 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C186 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C189 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C190 | 1-164-245-11 | CERAMIC CHIP | 0.015uF | 10% | 25V |
| C193 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C194 | 1-164-245-11 | CERAMIC CHIP | 0.015uF | 10% | 25V |
| C197 | 1-164-677-11 | CERAMIC CHIP | 0.033uF | 10% | 16V |
| C198 | 1-162-926-11 | CERAMIC CHIP | 82PF | 5% | 50V |
| C199 | 1-164-392-11 | CERAMIC CHIP | 390PF | 5% | 50V |
| C202 | 1-115-467-11 | CERAMIC CHIP | 0.22uF | 10% | 10V |
| C203 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C206 | 1-126-205-11 | ELECT CHIP | 47uF | 20% | 6.3V |
| C207 | 1-115-467-11 | CERAMIC CHIP | 0.22uF | 10% | 10V |
| C209 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C212 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C213 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C214 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C215 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C216 | 1-126-205-11 | ELECT CHIP | 47uF | 20% | 6.3V |
| C218 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C219 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C220 | 1-126-205-11 | ELECT CHIP | 47uF | 20% | 6.3V |
| C222 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C223 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C224 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C225 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C227 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C229 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C231 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C232 | 1-125-889-91 | CERAMIC CHIP | 2.2uF | 10% | 10V |
| C236 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C237 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C239 | 1-126-205-11 | ELECT CHIP | 47uF | 20% | 6.3V |
| C240 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C241 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C244 | 1-162-915-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C245 | 1-162-915-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C246 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C247 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C248 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C249 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C250 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C251 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C255 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C256 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C257 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C259 | 1-115-467-11 | CERAMIC CHIP | 0.22uF | 10% | 10V |
| C260 | 1-126-205-11 | ELECT CHIP | 47uF | 20% | 6.3V |
| C263 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C264 | 1-126-205-11 | ELECT CHIP | 47uF | 20% | 6.3V |

| Ref. No. | Part No. | Description | Remark | | |
|------------------|--------------|-------------------------------|--------|-----|-------|
| C266 | 1-115-467-11 | CERAMIC CHIP | 0.22uF | 10% | 10V |
| C268 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C269 | 1-126-205-11 | ELECT CHIP | 47uF | 20% | 6.3V |
| C270 | 1-126-204-11 | ELECT CHIP | 47uF | 20% | 16V |
| C273 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| < CONNECTOR > | | | | | |
| CN103 | 1-815-763-11 | CONNECTOR, FFC/FPC 24P | | | |
| CN201 | 1-784-370-31 | CONNECTOR, FFC/FPC 11P | | | |
| CN202 | 1-784-370-31 | CONNECTOR, FFC/FPC 11P | | | |
| CN205 | 1-779-993-11 | PIN, CONNECTOR (PWB) 5P | | | |
| < FERRITE BEAD > | | | | | |
| FB201 | 1-469-324-21 | FERRITE, EMI (SMD) (2012) | | | |
| FB202 | 1-469-324-21 | FERRITE, EMI (SMD) (2012) | | | |
| FB203 | 1-469-324-21 | FERRITE, EMI (SMD) (2012) | | | |
| FB204 | 1-469-324-21 | FERRITE, EMI (SMD) (2012) | | | |
| FB205 | 1-469-324-21 | FERRITE, EMI (SMD) (2012) | | | |
| FB206 | 1-469-324-21 | FERRITE, EMI (SMD) (2012) | | | |
| < FILTER > | | | | | |
| FL203 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| FL204 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| FL205 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| FL207 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| FL208 | 1-234-177-21 | FILTER, CHIP EMI | | | |
| FL209 | 1-233-893-21 | FILTER, CHIP EMI | | | |
| < IC > | | | | | |
| IC101 | 6-704-524-01 | IC FAN8036L | | | |
| IC102 | 6-704-471-01 | IC CXD9780R | | | |
| IC151 | 6-704-470-01 | IC TK11233CMCL-G | | | |
| IC201 | 6-704-472-01 | IC CXD9781R | | | |
| IC202 | 6-704-261-01 | IC TK11225CMCL-G | | | |
| IC204 | 6-804-503-01 | IC MBM29LV160BE-70PFTN-BC0401 | | | |
| IC205 | 6-704-004-01 | IC BR24L16F-WE2 | | | |
| IC206 | 6-706-346-01 | IC A2V64S40DTP-G75-T | | | |
| IC208 | 6-702-302-01 | IC TK11133CSCL-G | | | |
| < TRANSISTOR > | | | | | |
| Q168 | 8-729-424-59 | TRANSISTOR UN2212 | | | |
| Q170 | 6-550-554-01 | TRANSISTOR UM6K1NL02TN | | | |
| Q171 | 6-550-653-01 | TRANSISTOR QST8TR | | | |
| < RESISTOR > | | | | | |
| R101 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R102 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R103 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R104 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R107 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R109 | 1-216-834-11 | METAL CHIP | 12K | 5% | 1/10W |
| R110 | 1-216-822-11 | METAL CHIP | 1.2K | 5% | 1/10W |
| R111 | 1-216-835-11 | METAL CHIP | 15K | 5% | 1/10W |
| R112 | 1-216-826-11 | METAL CHIP | 2.7K | 5% | 1/10W |
| R114 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R117 | 1-216-834-11 | METAL CHIP | 12K | 5% | 1/10W |
| R119 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remark | Ref. No. | Part No. | Description | | | Remark |
|----------|--------------|-------------|------|------|--------|-------------------------------|--------------|--------------------------|------|------|--------|
| R120 | 1-218-895-11 | METAL CHIP | 100K | 0.5% | 1/10W | R220 | 1-216-832-11 | METAL CHIP | 8.2K | 5% | 1/10W |
| R121 | 1-218-895-11 | METAL CHIP | 100K | 0.5% | 1/10W | R222 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R122 | 1-218-889-11 | METAL CHIP | 56K | 0.5% | 1/10W | R224 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R123 | 1-218-889-11 | METAL CHIP | 56K | 0.5% | 1/10W | R225 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R124 | 1-218-867-11 | METAL CHIP | 6.8K | 0.5% | 1/10W | R226 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R126 | 1-216-838-11 | METAL CHIP | 27K | 5% | 1/10W | R227 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R127 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R244 | 1-216-836-11 | METAL CHIP | 18K | 5% | 1/10W |
| R129 | 1-218-893-11 | METAL CHIP | 82K | 0.5% | 1/10W | R247 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R130 | 1-218-877-11 | METAL CHIP | 18K | 0.5% | 1/10W | R248 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R131 | 1-218-883-11 | METAL CHIP | 33K | 0.5% | 1/10W | R249 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R132 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R255 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R136 | 1-218-875-11 | METAL CHIP | 15K | 0.5% | 1/10W | R260 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R137 | 1-216-864-11 | SHORT CHIP | 0 | | | R261 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R155 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | R263 | 1-211-990-11 | METAL CHIP | 75 | 0.5% | 1/10W |
| R156 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | R264 | 1-211-990-11 | METAL CHIP | 75 | 0.5% | 1/10W |
| R157 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W | R265 | 1-211-990-11 | METAL CHIP | 75 | 0.5% | 1/10W |
| R158 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W | R266 | 1-211-990-11 | METAL CHIP | 75 | 0.5% | 1/10W |
| R165 | 1-216-864-11 | SHORT CHIP | 0 | | | R267 | 1-211-990-11 | METAL CHIP | 75 | 0.5% | 1/10W |
| R166 | 1-216-864-11 | SHORT CHIP | 0 | | | R268 | 1-211-990-11 | METAL CHIP | 75 | 0.5% | 1/10W |
| R167 | 1-216-864-11 | SHORT CHIP | 0 | | | R271 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R168 | 1-216-864-11 | SHORT CHIP | 0 | | | R276 | 1-218-839-11 | METAL CHIP | 470 | 0.5% | 1/10W |
| R172 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | R280 | 1-216-826-11 | METAL CHIP | 2.7K | 5% | 1/10W |
| R173 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | R284 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R175 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R285 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R176 | 1-216-864-11 | SHORT CHIP | 0 | | | R286 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R178 | 1-211-977-11 | METAL CHIP | 22 | 0.5% | 1/10W | R287 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R179 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W | R288 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R180 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R289 | 1-218-916-11 | METAL CHIP | 750K | 0.5% | 1/10W |
| R181 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | R298 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R182 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | R299 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R183 | 1-211-977-11 | METAL CHIP | 22 | 0.5% | 1/10W | R501 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R184 | 1-211-977-11 | METAL CHIP | 22 | 0.5% | 1/10W | R502 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R185 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W | R507 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R186 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | R508 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R187 | 1-216-864-11 | SHORT CHIP | 0 | | | R509 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R188 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W | R510 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R189 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W | R1015 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R190 | 1-216-864-11 | SHORT CHIP | 0 | | | R1018 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R191 | 1-216-864-11 | SHORT CHIP | 0 | | | R1019 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R192 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | R1020 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R193 | 1-216-864-11 | SHORT CHIP | 0 | | | R1021 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R194 | 1-216-864-11 | SHORT CHIP | 0 | | | R1022 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R195 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R1023 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R197 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W | R1026 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R198 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | R1027 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R199 | 1-216-835-11 | METAL CHIP | 15K | 5% | 1/10W | R2004 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R201 | 1-216-864-11 | SHORT CHIP | 0 | | | R2006 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R202 | 1-216-864-11 | SHORT CHIP | 0 | | | R2007 | 1-211-985-11 | METAL CHIP | 47 | 0.5% | 1/10W |
| R203 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | R2027 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R205 | 1-216-864-11 | SHORT CHIP | 0 | | | R2030 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R206 | 1-216-864-11 | SHORT CHIP | 0 | | | < COMPOSITION CIRCUIT BLOCK > | | | | | |
| R207 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W | RB204 | 1-234-371-21 | RES, NETWORK 47X4 (1005) | | | |
| R208 | 1-216-864-11 | SHORT CHIP | 0 | | | RB205 | 1-234-371-21 | RES, NETWORK 47X4 (1005) | | | |
| R209 | 1-216-864-11 | SHORT CHIP | 0 | | | RB206 | 1-234-371-21 | RES, NETWORK 47X4 (1005) | | | |
| R210 | 1-216-864-11 | SHORT CHIP | 0 | | | RB2031 | 1-234-371-21 | RES, NETWORK 47X4 (1005) | | | |
| R213 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | | | | | | |
| R215 | 1-216-864-11 | SHORT CHIP | 0 | | | | | | | | |
| R216 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | | | | | | |

HCD-BC150/BC250

DMB09

ENCODER

FL

H/P

IO

| Ref. No. | Part No. | Description | Remark |
|---------------------------|--------------|-----------------------------|------------------|
| < VIBRATOR > | | | |
| X201 | 1-781-867-21 | VIBRATOR, CRYSTAL (27MHz) | |
| ***** | | | |
| ENCODER BOARD | | | |
| ***** | | | |
| ***** | | | |
| FL BOARD | | | |
| ***** | | | |
| < CAPACITOR > | | | |
| C839 | 1-162-974-11 | CERAMIC CHIP | 0.01uF 50V |
| C840 | 1-126-795-11 | ELECT | 10uF 20% 50V |
| C841 | 1-164-360-11 | CERAMIC CHIP | 0.1uF 16V |
| C842 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| C843 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| C845 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| C846 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF 10% 50V |
| C847 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF 10% 50V |
| C848 | 1-162-960-11 | CERAMIC CHIP | 220PF 10% 50V |
| C849 | 1-162-960-11 | CERAMIC CHIP | 220PF 10% 50V |
| C850 | 1-162-960-11 | CERAMIC CHIP | 220PF 10% 50V |
| C851 | 1-162-960-11 | CERAMIC CHIP | 220PF 10% 50V |
| C852 | 1-162-960-11 | CERAMIC CHIP | 220PF 10% 50V |
| C853 | 1-162-960-11 | CERAMIC CHIP | 220PF 10% 50V |
| C854 | 1-162-960-11 | CERAMIC CHIP | 220PF 10% 50V |
| C855 | 1-162-960-11 | CERAMIC CHIP | 220PF 10% 50V |
| C856 | 1-162-960-11 | CERAMIC CHIP | 220PF 10% 50V |
| C857 | 1-162-960-11 | CERAMIC CHIP | 220PF 10% 50V |
| C858 | 1-162-960-11 | CERAMIC CHIP | 220PF 10% 50V |
| < CONNECTOR > | | | |
| CN803 | 1-568-828-11 | CONNECTOR, FFC 9P | |
| < FLUORESCENT INDICATOR > | | | |
| FL801 | 1-518-968-11 | INDICATOR TUBE, FLUORESCENT | |
| < IC > | | | |
| IC803 | 8-759-643-83 | IC uPD16315GB-3BS | |
| < TRANSISTOR > | | | |
| Q814 | 8-729-034-51 | TRANSISTOR | KTC3875 |
| Q815 | 8-729-034-51 | TRANSISTOR | KTC3875 |
| < RESISTOR > | | | |
| R853 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R854 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R858 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R860 | 1-216-844-11 | METAL CHIP | 82K 5% 1/10W |
| R862 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W |
| R863 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W |
| R868 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R872 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R874 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W |
| R875 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W |
| ***** | | | |

| Ref. No. | Part No. | Description | Remark |
|------------------|--------------|---------------------------------|------------------|
| | 1-861-263-11 | H/P BOARD | ***** |
| < CAPACITOR > | | | |
| C800 | 1-164-230-11 | CERAMIC CHIP | 220PF 5% 50V |
| C801 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| C802 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| C803 | 1-164-360-11 | CERAMIC CHIP | 0.1uF 16V |
| C804 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF 10% 50V |
| C806 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF 10% 50V |
| < CONNECTOR > | | | |
| CN804 | 1-785-331-11 | PIN, CONNECTOR (LIGHT ANGLE) 5P | |
| < DIODE > | | | |
| D800 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| D801 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| < FERRITE BEAD > | | | |
| FB800 | 1-500-284-21 | INDUCTOR, FERRITE BEAD | |
| FB801 | 1-216-295-91 | SHORT CHIP | 0 |
| FB802 | 1-469-144-21 | FERRITE, EMI (SMD) (2012) | |
| FB803 | 1-469-144-21 | FERRITE, EMI (SMD) (2012) | |
| FB805 | 1-469-144-21 | FERRITE, EMI (SMD) (2012) | |
| < JACK > | | | |
| J800 | 1-566-891-21 | JACK (PHONES) | |
| < COIL > | | | |
| L800 | 1-410-387-11 | INDUCTOR | 33uH |
| L801 | 1-410-387-11 | INDUCTOR | 33uH |
| L802 | 1-469-144-21 | FERRITE, EMI (SMD) (2012) | |
| L803 | 1-469-144-21 | FERRITE, EMI (SMD) (2012) | |
| < TRANSISTOR > | | | |
| Q800 | 8-729-920-31 | TRANSISTOR | DTC343TK |
| Q801 | 8-729-920-31 | TRANSISTOR | DTC343TK |
| Q803 | 8-729-920-31 | TRANSISTOR | DTC343TK |
| Q804 | 8-729-920-31 | TRANSISTOR | DTC343TK |
| < RESISTOR > | | | |
| R800 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W |
| R801 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W |
| R802 | 1-216-805-11 | METAL CHIP | 47 5% 1/10W |
| R803 | 1-216-805-11 | METAL CHIP | 47 5% 1/10W |
| R805 | 1-216-805-11 | METAL CHIP | 47 5% 1/10W |
| R807 | 1-216-805-11 | METAL CHIP | 47 5% 1/10W |
| ***** | | | |
| | A-1060-648-A | IO BOARD, COMPLETE | ***** |
| < CAPACITOR > | | | |
| C202 | 1-162-964-11 | CERAMIC CHIP | 0.001uF 10% 50V |
| C206 | 1-162-964-11 | CERAMIC CHIP | 0.001uF 10% 50V |
| C207 | 1-162-960-11 | CERAMIC CHIP | 220PF 10% 50V |
| C208 | 1-162-960-11 | CERAMIC CHIP | 220PF 10% 50V |
| C209 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10% 16V |

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|------------------------------------|------------------|----------|--------------|------------------------------------|-----------------|
| C211 | 1-162-960-11 | CERAMIC CHIP | 220PF 10% 50V | | | < JACK > | |
| C213 | 1-162-960-11 | CERAMIC CHIP | 220PF 10% 50V | | | | |
| C214 | 1-104-662-91 | ELECT | 22uF 20% 25V | J200 | 1-764-593-21 | JACK 2P (VIDEO/SAT) | |
| C215 | 1-104-662-91 | ELECT | 22uF 20% 25V | J201 | 1-817-449-11 | JACK, PIN 3P (COMPONENT VIDEO OUT) | |
| C216 | 1-104-662-91 | ELECT | 22uF 20% 25V | J203 | 1-694-920-11 | TERMINAL BOARD (S TERMINAL+1P) | (MONITOR OUT) |
| C217 | 1-104-662-91 | ELECT | 22uF 20% 25V | | | < COIL > | |
| C222 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | | | | |
| C223 | 1-104-662-91 | ELECT | 22uF 20% 25V | | | | |
| C227 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | L200 | 1-414-754-11 | INDUCTOR | 10uH |
| C228 | 1-126-933-11 | ELECT | 100uF 20% 16V | L207 | 1-414-754-11 | INDUCTOR | 10uH |
| C229 | 1-126-933-11 | ELECT | 100uF 20% 16V | L208 | 1-414-754-11 | INDUCTOR | 10uH |
| C230 | 1-126-916-11 | ELECT | 1000uF 20% 6.3V | | | < TRANSISTOR > | |
| C231 | 1-126-916-11 | ELECT | 1000uF 20% 6.3V | | | | |
| C232 | 1-126-916-11 | ELECT | 1000uF 20% 6.3V | Q202 | 8-729-901-00 | TRANSISTOR | DTC124EK |
| C233 | 1-104-662-91 | ELECT | 22uF 20% 25V | Q203 | 8-729-901-00 | TRANSISTOR | DTC124EK |
| C235 | 1-104-662-91 | ELECT | 22uF 20% 25V | Q211 | 8-729-120-28 | TRANSISTOR | 2SC1623-L5L6 |
| C238 | 1-104-662-91 | ELECT | 22uF 20% 25V | Q212 | 8-729-120-28 | TRANSISTOR | 2SC1623-L5L6 |
| C239 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | | | < RESISTOR > | |
| C240 | 1-126-964-11 | ELECT | 10uF 20% 50V | | | | |
| C241 | 1-126-964-11 | ELECT | 10uF 20% 50V | R203 | 1-216-864-11 | SHORT CHIP | 0 |
| C242 | 1-126-935-11 | ELECT | 470uF 20% 16V | R204 | 1-216-864-11 | SHORT CHIP | 0 |
| C243 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | R212 | 1-216-857-11 | METAL CHIP | 1M 5% 1/10W |
| C244 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | R215 | 1-216-857-11 | METAL CHIP | 1M 5% 1/10W |
| C245 | 1-126-960-11 | ELECT | 1uF 20% 50V | R216 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W |
| C246 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | R217 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W |
| C247 | 1-126-960-11 | ELECT | 1uF 20% 50V | R218 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| C248 | 1-126-960-11 | ELECT | 1uF 20% 50V | R221 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W |
| C249 | 1-126-964-11 | ELECT | 10uF 20% 50V | R222 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W |
| C250 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V | R226 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W |
| C256 | 1-104-662-91 | ELECT | 22uF 20% 25V | R227 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W |
| C257 | 1-104-662-91 | ELECT | 22uF 20% 25V | R228 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W |
| C259 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | R229 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W |
| C263 | 1-126-964-11 | ELECT | 10uF 20% 50V | R230 | 1-216-864-11 | SHORT CHIP | 0 |
| C267 | 1-162-967-11 | CERAMIC CHIP | 0.0033uF 10% 50V | R231 | 1-218-285-11 | METAL CHIP | 75 5% 1/10W |
| C268 | 1-162-967-11 | CERAMIC CHIP | 0.0033uF 10% 50V | R232 | 1-218-285-11 | METAL CHIP | 75 5% 1/10W |
| C269 | 1-164-245-11 | CERAMIC CHIP | 0.015uF 10% 25V | R233 | 1-218-285-11 | METAL CHIP | 75 5% 1/10W |
| C271 | 1-115-156-11 | CERAMIC CHIP | 1uF 10V | R234 | 1-218-285-11 | METAL CHIP | 75 5% 1/10W |
| C277 | 1-126-934-11 | ELECT | 220uF 20% 16V | R235 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| C278 | 1-104-662-91 | ELECT | 22uF 20% 25V | R237 | 1-218-285-11 | METAL CHIP | 75 5% 1/10W |
| C279 | 1-104-662-91 | ELECT | 22uF 20% 25V | R238 | 1-218-285-11 | METAL CHIP | 75 5% 1/10W |
| C280 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | R244 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| C281 | 1-115-156-11 | CERAMIC CHIP | 1uF 10V | R248 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| C282 | 1-164-245-11 | CERAMIC CHIP | 0.015uF 10% 25V | R251 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| C288 | 1-115-416-11 | CERAMIC CHIP | 0.001uF 5% 25V | R253 | 1-216-837-11 | METAL CHIP | 22K 5% 1/10W |
| | | < CONNECTOR > | | R254 | 1-216-837-11 | METAL CHIP | 22K 5% 1/10W |
| CN200 | 1-568-830-11 | CONNECTOR, FFC 11P | | R256 | 1-216-837-11 | METAL CHIP | 22K 5% 1/10W |
| CN201 | 1-779-285-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 17P | | R257 | 1-216-837-11 | METAL CHIP | 22K 5% 1/10W |
| CN202 | 1-779-279-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 11P | | R259 | 1-216-841-11 | METAL CHIP | 47K 5% 1/10W |
| | | < DIODE > | | R260 | 1-216-841-11 | METAL CHIP | 47K 5% 1/10W |
| D201 | 8-719-988-61 | DIODE 1SS355TE-17 | | R263 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| D202 | 8-719-988-61 | DIODE 1SS355TE-17 | | R267 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W |
| | | < IC > | | R268 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W |
| IC200 | 8-759-385-76 | IC MC14052 BDR2 | | R275 | 1-216-864-11 | SHORT CHIP | 0 |
| IC201 | 6-705-602-01 | IC MM1623BFBE | | R277 | 1-216-864-11 | SHORT CHIP | 0 |
| IC203 | 8-759-710-97 | IC NJM4565M-D | | R284 | 1-218-867-11 | METAL CHIP | 6.8K 0.5% 1/10W |
| | | | | R285 | 1-216-823-11 | METAL CHIP | 1.5K 5% 1/10W |
| | | | | R286 | 1-216-813-11 | METAL CHIP | 220 5% 1/10W |
| | | | | R290 | 1-216-849-11 | METAL CHIP | 220K 5% 1/10W |
| | | | | R292 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |

HCD-BC150/BC250

IO **LF** **MAIN**

| Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|----------------------------------|---------|------|-------|
| R294 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R295 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R296 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/10W |
| R297 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R298 | 1-218-867-11 | METAL CHIP | 6.8K | 0.5% | 1/10W |
| R299 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R300 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R301 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R302 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R303 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R305 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| ***** | | | | | |
| | 1-861-264-11 | LF BOARD | ***** | | |
| | | < CAPACITOR > | | | |
| △ C903 | 1-117-916-51 | FILM | 0.22uF | 10% | 275V |
| | | < CONNECTOR > | | | |
| CN900 | 1-564-321-00 | PIN, CONNECTOR (3.96mm PITCH) 2P | | | |
| * CN901 | 1-564-321-21 | PIN, CONNECTOR (3.96mm PITCH) 2P | | | |
| | | < LINE FILTER > | | | |
| △ LF901 | 1-456-082-11 | COIL, LINE FILTER | ***** | | |
| | A-1060-645-A | MAIN BOARD, COMPLETE (150) | | | |
| | A-1067-097-A | MAIN BOARD, COMPLETE (250) | | | |
| | | ***** | | | |
| | | < CAPACITOR > | | | |
| C506 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C507 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C508 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C509 | 1-126-960-11 | ELECT | 1uF | 20% | 50V |
| C510 | 1-126-960-11 | ELECT | 1uF | 20% | 50V |
| C511 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C514 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C518 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C522 | 1-104-658-91 | ELECT | 100uF | 20% | 10V |
| C524 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C525 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C526 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C527 | 1-107-726-91 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C528 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C529 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C530 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C531 | 1-162-917-11 | CERAMIC CHIP | 15PF | 5% | 50V |
| C532 | 1-162-917-11 | CERAMIC CHIP | 15PF | 5% | 50V |
| C533 | 1-162-916-11 | CERAMIC CHIP | 12PF | 5% | 50V |
| C534 | 1-162-916-11 | CERAMIC CHIP | 12PF | 5% | 50V |
| C535 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C536 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C537 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C538 | 1-107-726-91 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C539 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |

| Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|--------------|--------|-----|------|
| C540 | 1-107-726-91 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C541 | 1-107-726-91 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C542 | 1-126-923-91 | ELECT | 220uF | 20% | 10V |
| C543 | 1-107-726-91 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C544 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C545 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C546 | 1-107-726-91 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C547 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C549 | 1-107-726-91 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C550 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C551 | 1-107-726-91 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C552 | 1-107-726-91 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C553 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C554 | 1-107-726-91 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C555 | 1-107-726-91 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C556 | 1-107-726-91 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C557 | 1-107-726-91 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C558 | 1-107-726-91 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C559 | 1-107-726-91 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C560 | 1-107-726-91 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C561 | 1-126-924-11 | ELECT | 330uF | 20% | 10V |
| C562 | 1-107-726-91 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C563 | 1-107-726-91 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C564 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C566 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C568 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C569 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C570 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C571 | 1-104-658-91 | ELECT | 100uF | 20% | 10V |
| C572 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C573 | 1-107-726-91 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C574 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C575 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C576 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C577 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C578 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C579 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C581 | 1-104-905-11 | CAPACITOR | 0.22F | | 5.5V |
| C582 | 1-104-658-91 | ELECT | 100uF | 20% | 10V |
| C583 | 1-115-467-11 | CERAMIC CHIP | 0.22uF | 10% | 10V |
| C584 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C586 | 1-104-658-91 | ELECT | 100uF | 20% | 10V |
| C587 | 1-115-467-11 | CERAMIC CHIP | 0.22uF | 10% | 10V |
| C588 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C589 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C590 | 1-104-658-91 | ELECT | 100uF | 20% | 10V |
| C591 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C592 | 1-165-112-11 | CERAMIC CHIP | 0.33uF | | 16V |
| C593 | 1-165-112-11 | CERAMIC CHIP | 0.33uF | | 16V |
| C594 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C595 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C596 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C597 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C598 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C599 | 1-126-923-91 | ELECT | 220uF | 20% | 10V |

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|------------------|--------------|---------------------------------------|----------------|----------------|--------------|-------------|----------------|
| C601 | 1-126-947-11 | ELECT | 47uF 20% 35V | < TRANSISTOR > | | | |
| C602 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10% 16V | Q503 | 6-550-363-01 | TRANSISTOR | 2SB1690KT146 |
| C603 | 1-104-658-91 | ELECT | 100uF 20% 10V | Q504 | 8-729-120-28 | TRANSISTOR | 2SC1623-L5L6 |
| C604 | 1-110-501-11 | CERAMIC CHIP | 0.33uF 10% 16V | Q505 | 8-729-120-28 | TRANSISTOR | 2SC1623-L5L6 |
| C605 | 1-126-947-11 | ELECT | 47uF 20% 35V | Q506 | 8-729-120-28 | TRANSISTOR | 2SC1623-L5L6 |
| C606 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10% 16V | Q507 | 8-729-027-23 | TRANSISTOR | DTA114EKA-T146 |
| C607 | 1-126-947-11 | ELECT | 47uF 20% 35V | Q508 | 8-729-901-00 | TRANSISTOR | DTC124EK |
| C608 | 1-162-953-11 | CERAMIC CHIP | 100PF 5% 50V | Q509 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 |
| C614 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10% 16V | Q510 | 8-729-120-28 | TRANSISTOR | 2SC1623-L5L6 |
| < CONNECTOR > | | | | < RESISTOR > | | | |
| CN502 | 1-779-289-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 21P | | R503 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| CN503 | 1-779-277-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 9P | | R504 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| CN504 | 1-779-285-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 17P | | R505 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| CN505 | 1-784-370-31 | CONNECTOR, FFC/FPC 11P | | R506 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| CN507 | 1-779-285-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 17P | | R507 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| CN509 | 1-778-691-11 | CONNECTOR, FFC/FPC 19P | | R508 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| CN510 | 1-785-466-11 | FFC/CONNECTOR, FPC (LIF (NON-ZIF)) 7P | | R509 | 1-216-864-11 | SHORT CHIP | 0 |
| < DIODE > | | | | R510 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| D501 | 8-719-988-61 | DIODE 1SS355TE-17 | | R511 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| D502 | 8-719-988-61 | DIODE 1SS355TE-17 | | R512 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| D503 | 8-719-988-61 | DIODE 1SS355TE-17 | | R515 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| D504 | 8-719-988-61 | DIODE 1SS355TE-17 | | R516 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| D505 | 8-719-988-61 | DIODE 1SS355TE-17 | | R517 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| D506 | 8-719-988-61 | DIODE 1SS355TE-17 | | R518 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| D507 | 8-719-988-61 | DIODE 1SS355TE-17 | | R519 | 1-216-827-11 | METAL CHIP | 3.3K 5% 1/10W |
| D509 | 8-719-988-61 | DIODE 1SS355TE-17 | | R520 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| < FERRITE BEAD > | | | | R521 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| FB500 | 1-414-813-11 | FERRITE, EMI (SMD) (2012) | | R522 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| FB501 | 1-216-295-91 | SHORT CHIP | 0 | R523 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| FB509 | 1-469-121-21 | FERRITE, EMI (SMD) (1608) | | R525 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| < IC > | | | | R526 | 1-216-827-11 | METAL CHIP | 3.3K 5% 1/10W |
| IC501 | 6-701-834-01 | IC PCM1802DBR | | R527 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| IC503 | 6-702-302-01 | IC TK11133CSCL-G | | R528 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| IC504 | 6-703-679-11 | IC PT8300R-TP | | R529 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| IC505 | 8-759-825-15 | IC LC89056W-E | | R531 | 1-216-857-11 | METAL CHIP | 1M 5% 1/10W |
| IC506 | 6-705-843-01 | IC CXD9720BQ | | R532 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W |
| IC507 | 6-704-037-01 | IC IC61LV6416-15TG | | R533 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| IC508 | 8-759-835-63 | IC NJM2391DL1-26 (TE1) | | R537 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| IC509 | 6-804-541-01 | IC uPD703261YGF-S07-JBT-A | | R540 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| IC510 | 6-703-679-11 | IC PT8300R-TP | | R541 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| IC511 | 6-701-680-01 | IC PST3629NR | | R542 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| IC512 | 8-759-473-95 | IC uPC2905T-E1 | | R543 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| IC513 | 6-706-468-01 | IC BA50BC0WFP-E2 | | R544 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| IC514 | 8-759-649-50 | IC SN74AHC1GU04DCKR | | R545 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| IC515 | 6-701-011-01 | IC uPC2910T-E1 | | R546 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| IC516 | 6-706-469-01 | IC BA80BC0WFP-E2 | | R547 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| < COIL > | | | | R548 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| L501 | 1-414-754-11 | INDUCTOR | 10uH | R549 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| L502 | 1-414-754-11 | INDUCTOR | 10uH | R551 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W |
| L503 | 1-414-754-11 | INDUCTOR | 10uH | R552 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| L504 | 1-414-754-11 | INDUCTOR | 10uH | R553 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| | | | | R554 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| | | | | R555 | 1-216-830-11 | METAL CHIP | 5.6K 5% 1/10W |
| | | | | R556 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| | | | | R557 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W |

HCD-BC150/BC250

MAIN

| Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|-------------|--------|----|-------|
| R558 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R559 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R560 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R561 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R562 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R563 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R564 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R565 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R566 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R567 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R568 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R569 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R572 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R573 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R574 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R575 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R576 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R578 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R579 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R580 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R581 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R582 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R583 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R585 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R586 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R587 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R588 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R589 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R590 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R591 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R594 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R595 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R596 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R597 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R598 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R601 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R608 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R609 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R611 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R612 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R613 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R614 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R615 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R616 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R617 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R618 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R619 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R620 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R621 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R622 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R623 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R624 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R625 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R626 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R627 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R628 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R631 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R639 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |

| Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|-------------|--------|----|-------|
| R640 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R642 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R648 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R650 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R651 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R652 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R653 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R654 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R656 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R657 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R658 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R659 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R660 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R661 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R662 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R663 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R664 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R665 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R666 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R667 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R668 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R669 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R670 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R671 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R672 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R673 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R674 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R675 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R676 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R678 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R679 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R680 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R681 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R682 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R683 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R684 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R686 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R703 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R704 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R706 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R707 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R708 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R714 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R715 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R716 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R717 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R718 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R723 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R741 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R742 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R743 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R744 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R753 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R754 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |

(250)

(150)

MAIN

MOTOR


PANEL

| Ref. No. | Part No. | Description | Remark |
|-------------------------------|-----------------------|--------------------------------|-------------------------|
| < COMPOSITION CIRCUIT BLOCK > | | | |
| RB501 | 1-233-576-11 | RES, CHIP NETWORK | 100 (3216) |
| RB502 | 1-233-576-11 | RES, CHIP NETWORK | 100 (3216) |
| RB503 | 1-233-576-11 | RES, CHIP NETWORK | 100 (3216) |
| RB504 | 1-233-576-11 | RES, CHIP NETWORK | 100 (3216) |
| RB505 | 1-233-576-11 | RES, CHIP NETWORK | 100 (3216) |
| RB506 | 1-233-576-11 | RES, CHIP NETWORK | 100 (3216) |
| RB507 | 1-233-576-11 | RES, CHIP NETWORK | 100 (3216) |
| RB508 | 1-233-411-11 | RES, CHIP NETWORK | 220 (3216) |
| RB509 | 1-233-411-11 | RES, CHIP NETWORK | 220 (3216) |
| RB510 | 1-233-411-11 | RES, CHIP NETWORK | 220 (3216) |
| RB901 | 1-236-908-11 | RES, CHIP NETWORK | 10K |
| RB902 | 1-236-908-11 | RES, CHIP NETWORK | 10K |
| RB903 | 1-236-908-11 | RES, CHIP NETWORK | 10K |
| RB904 | 1-236-908-11 | RES, CHIP NETWORK | 10K |
| < VIBRATOR > | | | |
| X500 | 1-795-843-11 | VIBRATOR, CRYSTAL (12.288MHz) | |
| X501 | 1-813-325-11 | VIBRATOR, CRYSTAL (13.90MHz) | |
| X502 | 1-795-058-21 | VIBRATOR, CERAMIC (5MHz) | |
| ***** | | | |
| MOTOR BOARD | | | |
| ***** | | | |
| < SWITCH > | | | |
| S761 | 1-786-704-11 | SWITCH, LEVER (SUB TRAY OUT) | |
| ***** | | | |
| A-4752-728-A | PANEL BOARD, COMPLETE | | |
| ***** | | | |
| 4-255-281-01 | LED HOLDER | | |
| < CAPACITOR > | | | |
| C817 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| C818 | 1-126-964-11 | ELECT | 10uF 20% 50V |
| C819 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| C821 | 1-162-960-11 | CERAMIC CHIP | 220PF 10% 50V |
| C823 | 1-162-960-11 | CERAMIC CHIP | 220PF 10% 50V |
| C826 | 1-124-234-00 | ELECT | 22uF 20% 10V |
| C830 | 1-163-037-11 | CERAMIC CHIP | 0.022uF 10% 50V |
| C835 | 1-162-974-11 | CERAMIC CHIP | 0.01uF 50V |
| C836 | 1-119-943-91 | ELECT | 47uF 20% 50V |
| C837 | 1-164-360-11 | CERAMIC CHIP | 0.1uF 16V |
| C860 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| C861 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| C862 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| < CONNECTOR > | | | |
| CN800 | 1-779-556-21 | CONNECTOR, FFC (LIF (NON-ZIF)) | 19P |
| CN801 | 1-568-828-11 | CONNECTOR, FFC | 9P |
| < DIODE > | | | |
| D803 | 6-500-522-01 | DIODE | 10EDB40-TA1B2 |
| D806 | 8-719-056-13 | DIODE | SML79423C-TP15 (DISC 1) |
| D807 | 8-719-056-13 | DIODE | SML79423C-TP15 (DISC 2) |
| D808 | 8-719-056-13 | DIODE | SML79423C-TP15 (DISC 3) |
| D809 | 8-719-056-13 | DIODE | SML79423C-TP15 (DISC 4) |

| Ref. No. | Part No. | Description | Remark |
|------------------|--------------|----------------------------------|---------------|
| D810 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| D811 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| D812 | 8-719-056-13 | DIODE SML79423C-TP15 (DISC 5) | |
| D813 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| D814 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| D815 | 8-719-069-56 | DIODE UdzSTE-176.2B | |
| D816 | 6-500-940-01 | DIODE SEL6E14C-STP5 (BACK LIGHT) | |
| D817 | 6-500-940-01 | DIODE SEL6E14C-STP5 (BACK LIGHT) | |
| D818 | 6-500-940-01 | DIODE SEL6E14C-STP5 (BACK LIGHT) | |
| D819 | 6-500-940-01 | DIODE SEL6E14C-STP5 (BACK LIGHT) | |
| D820 | 6-500-940-01 | DIODE SEL6E14C-STP5 (BACK LIGHT) | |
| D821 | 6-500-940-01 | DIODE SEL6E14C-STP5 (BACK LIGHT) | |
| < FERRITE BEAD > | | | |
| FB804 | 1-216-864-11 | SHORT CHIP | 0 |
| < IC > | | | |
| IC802 | 6-701-888-01 | IC BU2152FS | |
| < COIL > | | | |
| L804 | 1-410-671-31 | INDUCTOR | 47uH |
| L806 | 1-469-144-21 | FERRITE, EMI (SMD) (2012) | |
| < TRANSISTOR > | | | |
| Q806 | 8-729-034-51 | TRANSISTOR | KTC3875 |
| Q807 | 8-729-034-51 | TRANSISTOR | KTC3875 |
| Q808 | 6-550-065-01 | TRANSISTOR | CPH5504-TL-E |
| Q820 | 8-729-038-68 | TRANSISTOR | KRC103S |
| Q821 | 8-729-038-68 | TRANSISTOR | KRC103S |
| Q822 | 8-729-038-68 | TRANSISTOR | KRC103S |
| < RESISTOR > | | | |
| R812 | 1-216-864-11 | SHORT CHIP | 0 |
| R817 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W |
| R818 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R821 | 1-216-828-11 | METAL CHIP | 3.9K 5% 1/10W |
| R823 | 1-216-841-11 | METAL CHIP | 47K 5% 1/10W |
| R824 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W |
| R825 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W |
| R826 | 1-216-812-11 | METAL CHIP | 180 5% 1/10W |
| R827 | 1-216-812-11 | METAL CHIP | 180 5% 1/10W |
| R828 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W |
| R829 | 1-216-812-11 | METAL CHIP | 180 5% 1/10W |
| R830 | 1-216-812-11 | METAL CHIP | 180 5% 1/10W |
| R831 | 1-216-812-11 | METAL CHIP | 180 5% 1/10W |
| R832 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W |
| R833 | 1-216-812-11 | METAL CHIP | 180 5% 1/10W |
| R834 | 1-216-812-11 | METAL CHIP | 180 5% 1/10W |
| R835 | 1-216-812-11 | METAL CHIP | 180 5% 1/10W |
| R836 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R837 | 1-216-812-11 | METAL CHIP | 180 5% 1/10W |
| R838 | 1-216-812-11 | METAL CHIP | 180 5% 1/10W |
| R839 | 1-216-839-11 | METAL CHIP | 33K 5% 1/10W |
| R840 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R841 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R842 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R843 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |

HCD-BC150/BC250

| PANEL | POWER SW | SENSOR | SPK | SW (1) |
|-------|----------|--------|-----|--------|
|-------|----------|--------|-----|--------|

| Ref. No. | Part No. | Description | Remark | | |
|-----------------|--------------|---|--------|-----|-------|
| R844 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R845 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R846 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R847 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R848 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R849 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R850 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R851 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R852 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R855 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R856 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R859 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R861 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R866 | 1-216-815-11 | METAL CHIP | 330 | 5% | 1/10W |
| R869 | 1-216-815-11 | METAL CHIP | 330 | 5% | 1/10W |
| R873 | 1-216-815-11 | METAL CHIP | 330 | 5% | 1/10W |
| < SWITCH > | | | | | |
| S801 | 1-771-608-21 | SWITCH, TACTILE (≡ (DISC 1)) | | | |
| S802 | 1-771-608-21 | SWITCH, TACTILE (≡ (DISC 2)) | | | |
| S803 | 1-762-875-21 | SWITCH, KEYBOARD (FUNCTION) | | | |
| S804 | 1-771-608-21 | SWITCH, TACTILE (DISC 1) | | | |
| S805 | 1-771-608-21 | SWITCH, TACTILE (DISC 2) | | | |
| S806 | 1-771-608-21 | SWITCH, TACTILE (DISC 3) | | | |
| S807 | 1-762-875-21 | SWITCH, KEYBOARD (VOLUME -) | | | |
| S808 | 1-762-875-21 | SWITCH, KEYBOARD (▶▶ PRESET +) | | | |
| S809 | 1-762-875-21 | SWITCH, KEYBOARD (▷) | | | |
| S810 | 1-762-875-21 | SWITCH, KEYBOARD (■) | | | |
| S811 | 1-771-608-21 | SWITCH, TACTILE (DISC 4) | | | |
| S812 | 1-771-608-21 | SWITCH, TACTILE (DISC 5) | | | |
| S813 | 1-762-875-21 | SWITCH, KEYBOARD (◀◀ PRESET -) | | | |
| S814 | 1-771-608-21 | SWITCH, TACTILE (≡ (DISC 5)) | | | |
| S815 | 1-762-875-21 | SWITCH, KEYBOARD (VOLUME +) | | | |
| S816 | 1-771-608-21 | SWITCH, TACTILE (≡ (DISC 4)) | | | |
| S817 | 1-762-875-21 | SWITCH, KEYBOARD (■) | | | |
| S818 | 1-771-608-21 | SWITCH, TACTILE (≡ (DISC 3)) | | | |
| < TRANSFORMER > | | | | | |
| T801 | 1-443-172-11 | TRANSFORMER, DC-DC CONVERTER | | | |
| ***** | | | | | |
| | 1-861-265-11 | POWER SW BOARD | | | |
| ***** | | | | | |
| < CAPACITOR > | | | | | |
| C805 | 1-126-795-11 | ELECT | 10uF | 20% | 50V |
| C807 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| < CONNECTOR > | | | | | |
| CN805 | 1-785-331-11 | PIN, CONNECTOR (LIGHT ANGLE) 5P | | | |
| < DIODE > | | | | | |
| D802 | 6-500-809-01 | DIODE SELU5223C-STP15 (STAND BY) | | | |
| < IC > | | | | | |
| IC800 | 8-759-826-34 | IC NJL74H400A () | | | |

| Ref. No. | Part No. | Description | Remark | | |
|---------------|--------------|--------------------------------------|---------|-----|-------|
| < RESISTOR > | | | | | |
| R804 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R811 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R814 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| < SWITCH > | | | | | |
| S800 | 1-762-875-21 | SWITCH, KEYBOARD (I/⏻) | | | |
| ***** | | | | | |
| SENSOR BOARD | | | | | |
| ***** | | | | | |
| < IC > | | | | | |
| IC751 | 8-759-989-76 | IC RPR-359F | | | |
| ***** | | | | | |
| SPK BOARD | | | | | |
| ***** | | | | | |
| < CAPACITOR > | | | | | |
| C340 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C341 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C342 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C343 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C481 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C482 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C483 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C484 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C485 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C486 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C487 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C488 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C489 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C490 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C491 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C492 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| < CONNECTOR > | | | | | |
| * CN309 | 1-564-241-11 | PIN, CONNECTOR (3.96mm PITCH) 4P | | | |
| CN311 | 1-691-766-11 | PLUG (MICRO CONNECTOR) 4P | | | |
| CN312 | 1-691-766-21 | PLUG (MICRO CONNECTOR) 4P | | | |
| < TERMINAL > | | | | | |
| GP306 | 1-537-770-21 | TERMINAL BOARD, GROUND | | | |
| GP307 | 1-537-770-21 | TERMINAL BOARD, GROUND | | | |
| TB301 | 1-694-998-21 | TERMINAL BOARD (SPEAKER) | | | |
| ***** | | | | | |
| SW (1) BOARD | | | | | |
| ***** | | | | | |
| < SWITCH > | | | | | |
| S721 | 1-786-084-11 | SWITCH, DETECTION (MAIN TRAY IN/OUT) | | | |
| ***** | | | | | |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|--------------------------------------|--------|
| | | SW (2) BOARD ***** | |
| | | < SWITCH > | |
| S731 | 1-786-382-11 | SWITCH, PUSH (1 KEY) (SUB TRAY IN) | |
| ***** | | | |
| | A-4750-232-A | TRANSLATION BOARD, COMPLETE ***** | |
| | | < CAPACITOR > | |
| C701 | 1-126-786-11 | ELECT 47uF 20% 16V | |
| C702 | 1-126-791-11 | ELECT 10uF 20% 35V | |
| C761 | 1-162-306-11 | CERAMIC 0.01uF 20% 16V | |
| C762 | 1-162-306-11 | CERAMIC 0.01uF 20% 16V | |
| | | < CONNECTOR > | |
| CN701 | 1-779-558-21 | CONNECTOR, FFC (LIF (NON-ZIF)) 21P | |
| | | < DIODE > | |
| D701 | 8-719-921-40 | DIODE MTZJ-4.7C | |
| D711 | 8-719-982-10 | DIODE MTZJ-4.3A | |
| | | < IC > | |
| IC701 | 8-759-598-69 | IC BA6956AN | |
| IC711 | 8-759-598-69 | IC BA6956AN | |
| | | < TRANSISTOR > | |
| Q751 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| | | < RESISTOR > | |
| R701 | 1-249-415-11 | CARBON 680 5% 1/4W | |
| R702 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R711 | 1-249-415-11 | CARBON 680 5% 1/4W | |
| R712 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R751 | 1-247-806-11 | CARBON 91 5% 1/4W | |
| R752 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R753 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R754 | 1-249-430-11 | CARBON 12K 5% 1/4W | |
| R755 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| ***** | | | |
| | | MISCELLANEOUS ***** | |
| 5 | 1-763-861-12 | FAN, DC | |
| 6 | 1-828-962-11 | WIRE (FLAT TYPE) (11 CORE) | |
| 103 | 1-828-954-11 | WIRE (FLAT TYPE) (9 CORE) | |
| △ 105 | 1-783-531-72 | CORD, POWER | |
| △ 108 | 1-468-836-13 | REGULATOR, SWITCHING | |
| M761 | A-4713-174-A | MOTOR (81) ASSY (LD/ST MOTOR) | |
| M762 | A-4713-174-A | MOTOR (81) ASSY (BU U/D MOTOR) | |
| S771 | 1-478-552-11 | ENCODER, ROTARY (MD) | |
| S781 | 1-478-551-11 | ENCODER, ROTARY (ST U/D ENCODER) | |

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

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